Schofield & Sims

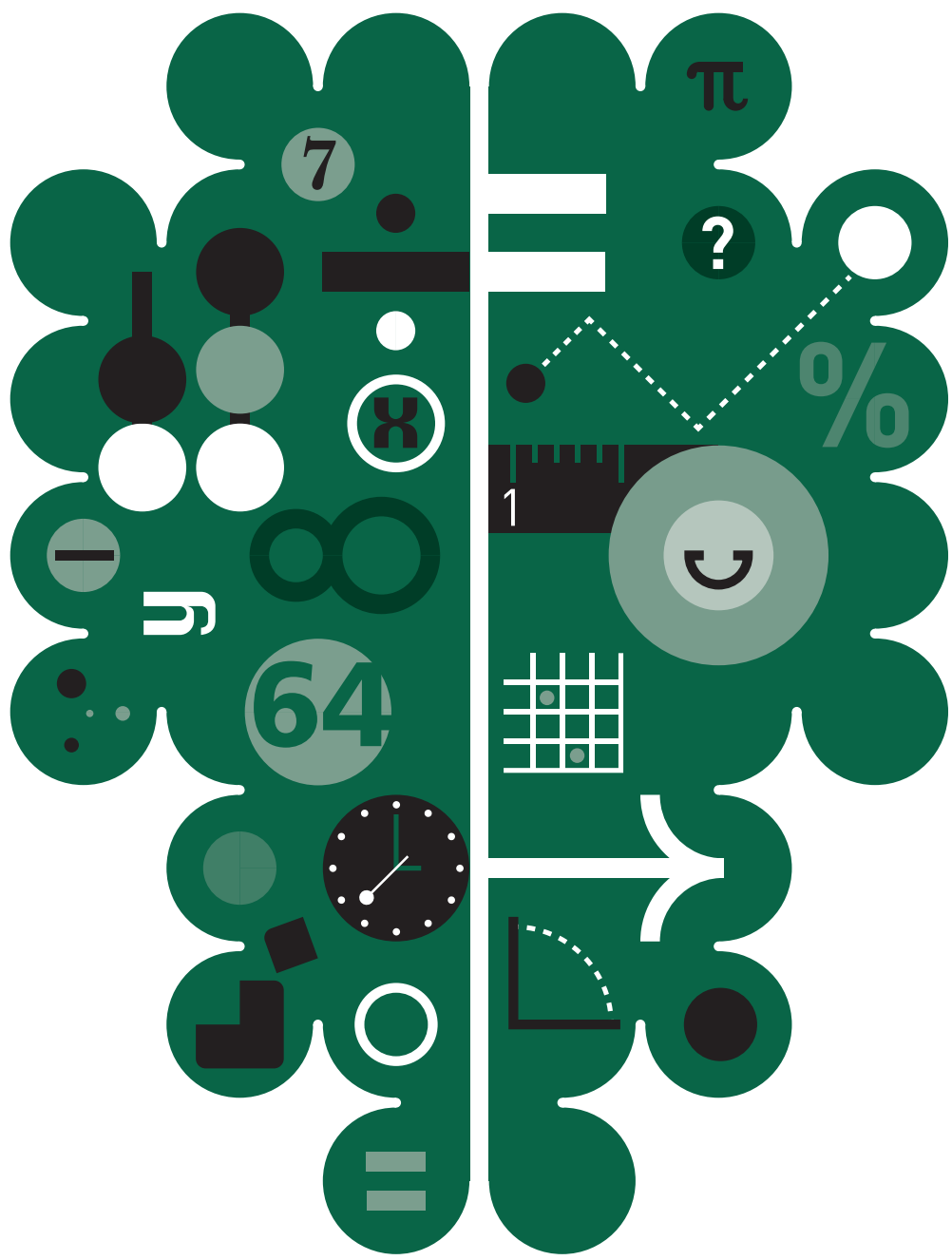# Mental Arithmetic 1

Answers

Name
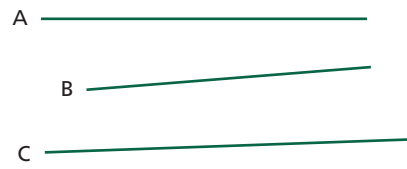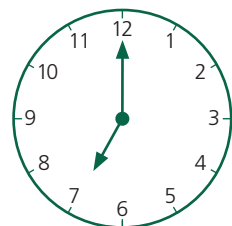
A | Answer
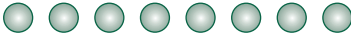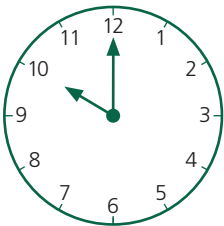
1. Count the sticks. How many? — **7**

/ \ \ / / / \

2. 3 + 6 = — **9**

3. 7 − 2 = — **5**

4. 5p + 2p + 1p = — **8p**

5. 9p − 6p = — **3p**

6. 8 = 5 + ▨ — **3**

7. 4 × 1 = — **4**

8. 5 = 9 − ▨ — **4**

9. 2 + 2 + 2 + 2 = — **8**

10. What time is it? — **5** o'clock

B | Answer
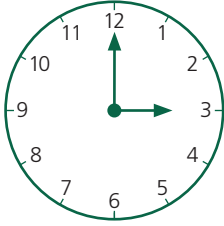
1. Find the total number of dots. — **7**

 and

2. Take 0 from 7. — **7**

3. Write the word for the missing number.

   3, 5, ▨, 9 — **seven**

4. Four more than five — **9**

5. How many must be taken from 5 to leave 3? — **2**

6. To eight add zero. — **8**

7. What number equals double 2? — **4**

8. From 6 subtract 3. — **3**

9. Find the difference between 3 and 8. — **5**

10. Which of these numbers is an odd number?

    | 2 | 4 | 5 | 6 | 8 | — **5**

C | Answer
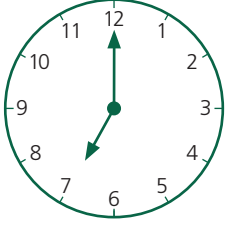
1. Write the word for the number that comes between 6 and 8. — **seven**

2. Lucy has 7p and she spends 4p. How much has she left? — **3p**

3. Which is the shortest line? A, B or C? — **B**

   A ————————
   B —————
   C —————————

4. Jack is 9 years old and Emily is 3 years younger. How old is Emily? — **6**

5. By how much is 7p more than 3p? — **4p**

6. Anu has one 5p and one 2p. How much are these coins worth altogether? — **7p**

7. A line is 6cm long. By how many centimetres is it shorter than another line 8cm long? — **2cm**

8. Gita has two 2ps and four 1ps. How much money has she altogether? — **8p**

9. Which is the third letter in the row?

   | A | B | C | D | E | F | G | — **C**

10. Daniel gets to school 2 hours later than the time on this clock. At what time does he arrive? — **9** o'clock
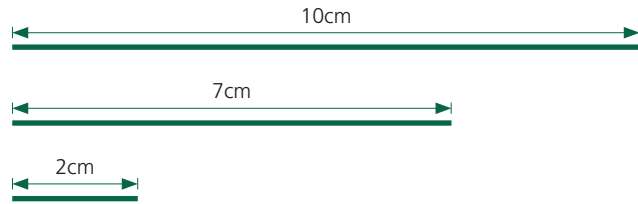
A | Answer

1. How many beads? Write the number as a word. — **eight**

2. $2 + \blacksquare = 8$ — **6**

3. $4p + 3p + 1p =$ — **8p**

4. $9 - 5 =$ — **4**

5. Which two numbers are missing?
   2, $\blacksquare$, 4, 5, $\blacksquare$, 7, 8 — **3** and **6**

6. $\blacksquare - 3 = 2$ — **5**

7. What is the time? — **10** o'clock

8. $7 + 2 = 2 + \blacksquare$ — **7**

9. $5 - 5 =$ — **0**

10. $7p = 5p + \blacksquare p$ — **2p**

B | Answer

1. Write the missing even number.
   2, 4, $\blacksquare$, 8 — **6**

2. Seven minus four — **3**

3. Find the total of 3, 0 and 5. — **8**

4. Take 8 from 8. — **0**

5. How many days in one week? — **7**

6. Find the total value of these coins. — **7p**

7. Write the number as a word that equals six plus three. — **nine**

8. Add 4p and 5p. — **9p**

9. From 9 take 7. — **2**

10. Subtract 0 from 6. — **6**

C | Answer

1. Which is the longest line? A, B or C? — **A**

2. Ross spent 3p. He had a 5p left. How much had he at first? — **8p**

3. How many days in a school week starting Monday and finishing Friday? — **5**

4. On a necklace there are nine jewels. Three rubies, three sapphires and the rest are diamonds. How many diamonds are there? — **3**

5. Jessica has these coins in her purse. She spends 4p. How much has she left? — **5p**

6. Tom is 4 years older than Amy who is 4. How old is Tom? — **8**

7. This clock is 1 hour slow. What is the correct time? — **4** o'clock

8. The length of a line is 8cm. Find the length of a line which is 3cm shorter. — **5cm**

9. Katie has 2p and Jakub has twice as much. How much have they altogether? — **6p**

10. George has one 5p and two 1ps. How much more does he need to make 9p? — **2p**

5

A | Answer

1. $2 + 5 + 2 =$ — 9
2. $8 - 0 =$ — 8
3. $6 + \blacksquare = 10$ — 4
4. $3 = 10 - \blacksquare$ — 7
5. $10 + 7 =$ — 17
6. $14 - 10 =$ — 4
7. $5p + 2p + 1p + 2p =$ — 10p
8. $10p - 8p =$ — 2p
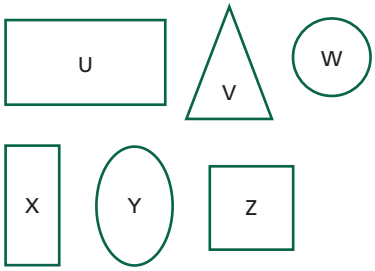9. $12 - \blacksquare = 2$ — 10
10. $£10 + \blacksquare = £15$ — £5

B | Answer

1. Write the number 14 as a word. — fourteen
2. What is the missing number?
   18, 17, 16, $\blacksquare$, 14, 13 — 15
3. Double 5. — 10
4. Find the total of these notes. — £80

   £10 Bank of England TEN Pounds 10
   £20 Bank of England TWENTY Pounds 20
   £50 Bank of England FIFTY Pounds 50

5. Subtract 6 from 10. — 4
6. What number is added to 9 to make 19? — 10
7. Find the change from a £10 note after spending £4. — £6
8. Which is the even number?

   | 9 | 11 | 13 | 15 | 16 | 17 | — 16

9. Increase 1 by 10. Write the number as a word. — eleven
10. What is the time after 3 hours? — 10 o'clock

C | Answer

1. T U Write the word for the number shown on the abacus. — nineteen
2. Olivia spends £3 and £5. How much change from a £10 note? — £2
3. At a party there were 17 plates of food. 10 are eaten. How many are left? — 7
4. Sophie's cat is 11 years old. How old will the cat be in 6 years' time? — 17
5. What number is taken from 19 to leave 12? — 7
6. Find the total length of the three lines. — 19cm

   10cm
   7cm
   2cm

7. What is the difference in centimetres between the longest and shortest lines? — 8cm
8. If Monday is the first day of the week, name the fourth day. — Thursday
9. How many 2ps have the same value as a 10p coin? — 5 2ps
10. Hassan has two coins in his pocket with a total value of 12p. Name both coins. — 10p   2p

A | Answer

1. 0 + 7 + 0 = — **7**
2. 9 + 3 − 5 = — **7**
3. 10 + ▣ = 13 — **3**
4. 2 + 8 = — **10**
5. 6 + ▣ = 10 — **4**
6. ▣ − 5 = 10 — **15**
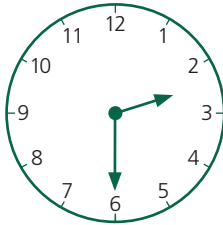7. What comes next?
   4, 8, 12, 16, ▣ — **20**
8. One 20p = one 10p + ▣ p — **10p**
9. 0 + ▣ = 10 — **10**
10. 10cm + 6cm = — **16cm**

B | Answer

1. How many more dots are needed to make eighteen? — **8**

   ● ● ● ● ● ● ● ● ● ●

2. One 20p = one 10p + ▣ 5ps — **2 5ps**
3. Write the correct sign, + or −, in place of ●.
   13 ● 4 = 17 — **+**
4. What number is added to 4 to make 16? — **12**
5. Decrease 20 by 5. — **15**
6. Which is the eighth letter in the row? — **O**

   | A | C | E | G | H | J | M | O | P | W |

7. Find the change from one 10p after spending 7p. — **3p**
8. Find the sum of 3, 4, 0 and 10. — **17**
9. Ten plus eight minus seven — **11**
10. Which is the odd number? — **15**

    | 4 | 6 | 12 | 15 | 18 | 20 |
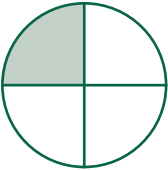
C | Answer

1. Find the total value of these coins. — **19p**

   5p 2p 2p 10p

2. If the date is 4 May, what is the date 10 days later? — **14 May**
3. The length of a piece of wood is 17cm. How many centimetres are sawn off to leave 10cm? — **7cm**
4. Ellie has 5p. Her sister has twice as much. Find the total of their money. — **15p**
5. What is the missing number?
   4 + 10 + ▣ = 19 — **5**
6. I spent 12p, 3p and 4p. How much change did I receive from one 20p? — **1p**
7. Sam is 18 years old. How old was he 7 years ago? — **11**
8. 16 people were on a bus. Seven got off and three got on. How many people were then on the bus? — **12**
9. Which of these shapes is
   a a square — **a Z**
   b a circle? — **b W**

   U   V   W
   X   Y   Z

10. On checking his answers to part C of this test, James had three wrong. How many had he correct? — **7**
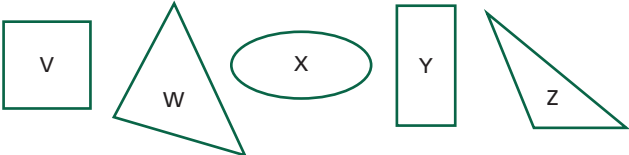
A

		Answer
1	13 + ☐ = 18	5
2	14 − ☐ = 4	10
3	18 = 1 ten + ☐ units	8
4	3 + 8 =	11
5	9p + 4p =	13p
6	5cm + 7cm =	12cm
7	12 − 9 =	3
8	15p − 8p =	7p
9	11cm − 8cm =	3cm
10	5 + ☐ = 13	8

B

		Answer
1	What number when added to 10 makes 19?	9
2	Take 7 from 18.	11
3	Increase 6 by 5.	11
4	Write the part of the square that is shaded	
	a as a word	a a half
	b in digits.	b $\frac{1}{2}$
5	From 13p take 7p.	6p
6	Find the sum of 6 and 9.	15
7	17 minus 8	9
8	6 plus 7	13
9	What is the difference between 3p and 11p?	8p
10	Find the total of 7 and the next odd number greater than 7.	16

C

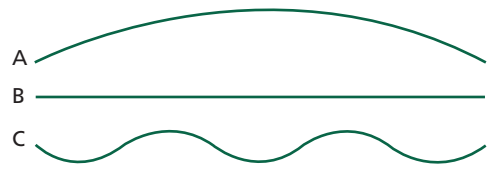|		Answer
1	What is the value of the missing coin? 5p + 10p + ☐ = 17p	2p
2	By how many is 8 + 8 more than 9?	7
3	The date is 8 June. What is the date one week later?	15 June
4	Yasmin has 4p less than her brother who has 13p. How much has Yasmin?	9p
5	A sandwich is cut into four equal parts. Write the name of each part	
	a as a word	a a quarter
	b in digits.	b $\frac{1}{4}$
6	What is the next even number that is greater than 10?	12
7	A line is 12cm long. At what measurement is its middle point?	6cm
8	Matthew has twice as much money as his brother, who has £4. How many pounds have they altogether?	£12
9	Write in words the time shown on the clock.	half past two
10	Ali has 18p. He spends 7p and 4p. How much has he left?	7p

A | Answer

1. 2 tens + ▨ units = 20 — **0**
2. ▨ − 10 = 2 — **12**
3. 7 + 7 = — **14**
4. 3p + 9p = — **12p**
5. ▨ + 4 = 19 — **15**
6. 8cm + 6cm = — **14cm**
7. 13 − 5 = — **8**
8. What comes next?

   8, 16, 24, 32, ▨ — **40**
9. 11cm − 4cm = — **7cm**
10. 16 − ▨ = 7 — **9**

B | Answer

1. How many 2ps are worth two 5ps? — **5** 2ps
2. By how many is 6 less than 14? — **8**
3. What number when added to 8 makes 13? — **5**
4. Subtract 9p from 18p. — **9p**
5. Decrease 12 by 4. — **8**
6. Add the first three even numbers. — **12**
7. Find the difference between the biggest and smallest of these amounts of money.

   | 9p | 3p | 11p | 7p | 18p | — **15p**
8. 8 plus 3 minus 5 — **6**
9. 6 + 7 = 10 + ▨ — **3**
10. Write the part of the circle that is shaded

    a as a word — a **a quarter**

    b in digits. — b **$\frac{1}{4}$**
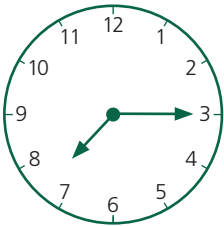
C | Answer

1. Sanjay is 8 years old. How old will he be in 4 years' time? — **12**
2. Take zero from thirteen. — **13**
3. Ruby gave two 5ps, two 2ps and three 1ps to pay for a pencil. How much did the pencil cost? — **17p**
4. How many half oranges can be cut from three whole oranges? — **6**
5. Write in words the name of the day of the week that follows Tuesday. — **Wednesday**
6. How many 2p coins have the same value as one 5p and seven 1ps? — **6** 2ps
7. There are five men, six women and eight children on a bus. How many people are there in total on the bus? — **19**
8. Josh has a half and his friend has a quarter of a cake. What fraction of the cake is left? — **$\frac{1}{4}$**
9. How many days are there in a fortnight? — **14**
10. Write the letters of the shapes that are triangles. — **W   Z**
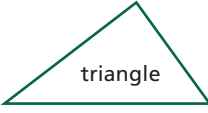
A | Answer

1. 8 + ☐ = 19 — **11**
2. ☐ − 7 = 10 — **17**
3. 1 ten + ☐ units = 14 — **4** U
4. 8p + 7p = — **15**p
5. 2 + 9 = — **11**
6. 14 − 5 = — **9**
7. 3 + 6 = 9 + ☐ — **0**
8. 10 − 5 = 12 − ☐ — **7**
9. $\frac{1}{2} + \frac{1}{4} =$ — $\frac{3}{4}$
10. 6 + 7 = 7 + ☐ — **6**

B | Answer

1. What number when added to 4 makes 13? — **9**
2. 9 is ☐ less than 16. — **7**
3. 18 is ☐ more than 9. — **9**
4. Write the missing word.
   1 whole one = four ☐ — **quarters**
5. From a dozen subtract 7. — **5**
6. How much change is left from one 10p after spending two 2ps? — **6**p
7. There are 60 minutes in 1 hour. How many minutes in
   a $\frac{1}{2}$h — a **30**min
   b $\frac{1}{4}$h? — b **15**min
8. What odd number is bigger than 11 but less than 15? — **13**
9. 8 plus 7 minus 10 — **5**
10. Name the fourth month of the year. — **April**

C | Answer
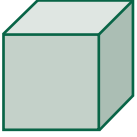
1. Which of these lines is the shortest, A, B or C? — **B**

   A
   B
   C

2. Harry is 11 years old. Olivia is three years younger. How old is Olivia? — **8**
3. Nadeen has nine 1ps. She changes them for three coins. Write the value of each coin. — **5p 2p 2p**
4. Eva has half a pizza and shares the rest equally between two friends. What fraction does each of her friends have? — $\frac{1}{4}$
5. How many children chose crisps as their favourite snack? — **4**

fruit	☺ ☺
crisps	☺ ☺ ☺ ☺
biscuits	☺ ☺ ☺

   one child = ☺

6. Write the correct sign <, > or = in place of ●.
   3 + 10 ● 18 − 5 — **=**
7. Find the total of one 10p, three 2ps and two 1ps. — **18**p
8. Name the month that comes next after December. — **January**
9. What length is added to 8cm and 6cm to make 20cm? — **6**cm
10. Write the name of this shape. — **rectangle**

10

A | Answer

1. $\blacksquare + 4 = 17$ — **13**
2. $13 - \blacksquare = 3$ — **10**
3. $8 + 5 = \blacksquare + 8$ — **5**
4. $17 = 1$ ten $+ \blacksquare$ units — **7**
5. $\frac{1}{2} - \frac{1}{4} =$ — **$\frac{1}{4}$**
6. $6 + 6 =$ — **12**
7. $9p + 8p =$ — **17p**
8. $16cm - 9cm =$ — **7cm**
9. $7 + 5 + 5 =$ — **17**
10. $18 - 7 - 6 =$ — **5**

B | Answer

1. Write the correct sign <, > or = in place of ⬤.

   $4 + 0$ ⬤ $13 - 9$ — **=**
2. Name the eighth month of the year. — **August**
3. Find the difference between 3cm + 7cm and 19cm. — **9cm**
4. 15p is ■ more than 8p. — **7p**
5. Take three-quarters from a whole one. — **$\frac{1}{4}$**
6. What number is 6 less than the sum of 10 and 4? — **8**
7. What time is it? Write the answer in digits. — **7.15**
8. Find the total of 8p + 5p + 2p. — **15p**
9. What number is added to 13 to make 18? — **5**
10. Find the difference between 17 and the next odd number bigger than 17. — **2**

C | Answer

1. Add together the even numbers that are less than 8. — **12**
2. A banana cost 13p. Emma gave two coins to pay for it. If the coins were of different values, what change did she receive? — **2p**
3. Estimate (guess) the correct measurement of the line AB. Is it 10cm, 4cm or 8cm? — **8cm**

   A ———————————————— B
4. Write < or > to make the statement true.

   48 ■ 72 — **<**
5. Ritvick saved 4p and 12p. How much more must he save to have 20p? — **4p**
6. Three friends each have a quarter of a chocolate bar. What fraction is left? — **$\frac{1}{4}$**
7. By how much are three 5ps greater than one 10p and two 2ps? — **1p**
8. Ahmed had 11 marbles. He lost five and then won 13. How many marbles had he then? — **19**
9. How many square faces does a cube have? — **6**
10. The three sides of a triangle together measure 17cm. Two sides together measure 11cm. Find the length of the third side. — **6cm**

A | Answer

1. $8 - 0 + 7 =$ _____ 15

2. Write the word for the missing number.

   0, 10, 20, ▨, 40, 50 _____ thirty

3. $\frac{1}{4} + \frac{1}{2} + \frac{1}{4} =$ _____ 1

4. 50p = ▨ 10ps _____ 5 10ps

5. 20p + 40p = _____ 60p

6. $5\frac{1}{2} + \frac{1}{2} =$ _____ 6

7. 50 − 30 = _____ 20

8. What number is the arrow pointing to? _____ 2

   0 _____ 10

9. 10cm = $3\frac{1}{2}$cm + ▨ cm _____ $6\frac{1}{2}$cm

10. 2 + 2 + 2 + 2 + 2 + 2 = _____ 12

B | Answer

1. Find the total of seven 2ps and one 5p. _____ 19p

2. Subtract twenty from fifty. _____ 30

3. Write < or > to make this statement true.

   97 ▨ 89 _____ >

4. How much change from two 10ps after spending 12p? _____ 8p

5. Add 10cm to 40cm. _____ 50cm

6. Eight groups each of two. How many altogether? _____ 16

7. How many 5ps have the same value as a 20p? _____ 4 5ps

8. How many days are in January? _____ 31

9. How many twos are there in 12? _____ 6

10. Which three different coins together make 17p? _____ 10p 5p 2p

C | Answer

1. 18 treats are shared equally between two kittens. How many each? _____ 9

2. How long is the line AB? _____ $5\frac{1}{2}$cm
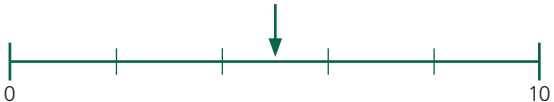
   cm
   A ————————————— B

3. Twice seven minus nine _____ 5

4. Sita spends 11p. She gives one 5p and the rest in 2ps. How many 2ps does she give? _____ 3 2ps

5. If 9 September is on a Monday, on which day is 14 September? _____ Saturday

6. Martin has 18p. He spends half of it and gives away 2p. How much has he left? _____ 7p

7. How many children chose science as their favourite subject? _____ 5
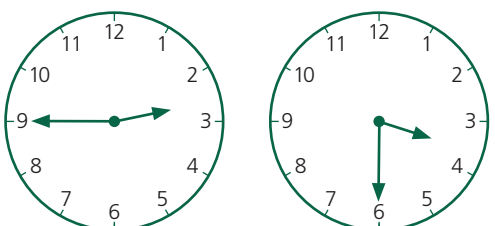
   maths   ☺ ☺ ☺
   science ☺ ☺ ☺ ☺ ☺
   history ☺ ☺

   one child = ☺

8. A card costs 8p. Find the cost of two cards. _____ 16p

9. A box of chocolates contains two layers each of 20 chocolates. How many chocolates are in the box? _____ 40

10. The lengths of two wooden rods are $7\frac{1}{2}$cm and 10cm. Find the difference in their lengths. _____ $2\frac{1}{2}$cm
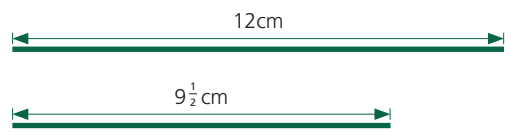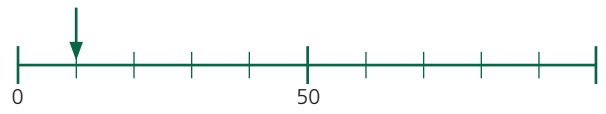
A | Answer

1. $6 + 0 + 14 =$ — **20**

2. Write the word for the missing number.
   100, 90, 80, ▨, 60 — **seventy**

3. $90 - 50 =$ — **40**

4. What comes next?
   24, 32, 40, ▨ — **48**

5. $1\frac{1}{2}$cm = 10cm − ▨cm — **$8\frac{1}{2}$cm**

6. ▨ 2ps = one 20p — **10** 2ps

7. $\frac{1}{2}$cm + $\frac{1}{2}$cm + $\frac{1}{2}$cm + $\frac{1}{2}$cm = — **2cm**

8. $100 = 50 +$ ▨ — **50**

9. $3p + 6p + 7p =$ — **16p**

10. $4 + 4 + 4 + 4 + 4 =$ — **20**

B | Answer

1. Find the total of 5p, 7p and 8p. — **20p**

2. Take fifty from eighty. Write the word for the answer. — **thirty**

3. Multiply 4 by 6. — **24**

4. $\frac{1}{4}$ of 24 — **6**

5. By how many pennies is 20p less than nine 10ps? — **70p**

6. In which of these months are there 31 days? April, June, August, November. — **August**

7. What number is the arrow pointing to? — **5**

8. Divide 36 by 4. — **9**

9. Write < or > to make the statement true.
   99 ▨ 101 — **<**

10. How many times is 4 added together to make 28? — **7**

C | Answer

1. T U Write the word for the number shown on the abacus. — **eighty**

2. By how many centimetres is a line of $13\frac{1}{2}$cm longer than a line of 8cm? — **$5\frac{1}{2}$cm**

3. Share 20p equally among 4 brothers. How much money do they each receive? — **5p**

4. If 6 May is a Tuesday, what is the date on Tuesday a fortnight later? — **20 May**

5. A balloon costs 6p. Find the cost of four balloons. — **24p**

6. A coat has 10 buttons. How many coats can be made using 100 buttons? — **10**

7. Find the total value of these coins. One 50p, two 10ps and one 20p. — **90p**

8. Rosie spends 38p in a shop and gives a 50p in payment. She receives two coins as change. Which coins are they? — **10p 2p**

9. Is this flag pole horizontal or vertical? — **vertical**

10. What is the difference in minutes between the times on these clocks? — **45min**

13

SECTION 1 | Test 11

A | Answer

1. Write in words the missing number.

   6, 16, 26, 36, ▧, 56 — **forty-six**

2. Write these numbers in digits.

   a 4 tens 7 units — a **47**

   b 6 tens 3 units — b **63**

3. 85 + 10 = — **95**

4. 77 − 10 = — **67**

5. $1\frac{1}{2} - \frac{1}{4}$ = — **$1\frac{1}{4}$**

6. 0 × 4 = — **0**

7. 8p + 10p + 20p = — **38**p

8. 44p = ▧ 20ps and ▧ p — **2** 20ps and **4**p

9. 16 ÷ 4 = — **4**

10. 40 = 4 × ▧ — **10**

B | Answer

1. What number is thirteen more than eighty? — **93**

2. From 20p take 13p. — **7**p

3. How many days in February this year? (29 in a leap year) — **28**

4. Find the total value of these coins. — **85**p

   50p 20p 5p 5p 5p

5. Write the correct sign +, −, × or ÷ in place of ●.

   6 × 4 = 4 ● 6 — **×**

6. How much change from two £20 notes after spending £31? **£9**

7. How many halves in six whole ones? — **12**

8. Decrease 70p by 8p. — **62**p

9. What number is 3 times bigger than 4? — **12**

10. How many days in September? — **30**

C | Answer

1. Find the difference between the lengths of the rods. — **$2\frac{1}{2}$** cm

   ← 12cm →

   ← $9\frac{1}{2}$ cm →

2. How many hours from 8.15 a.m. to 12.15 p.m.? — **4** hours

3. Write in digits the number that equals 9 tens and 7 units. — **97**

4. Is this pencil vertical or horizontal? — **horizontal**

5. The length of a line is 7cm. How long is a line that is 5 times as long as it? — **35**cm

6. Which of these numbers is nearest to 60?

   58 64 56 61 63 — **61**

7. What number is the arrow pointing to? — **10**

   0   50

8. One-quarter of George's money is 8p. How much has he altogether? — **32**p

9. Finlay gave six 5ps to pay for seven sweets at 4p each. How much change did he receive? — **2**p

10. **Badges** 3 for 20p — How many badges can be bought for 60p? — **9**
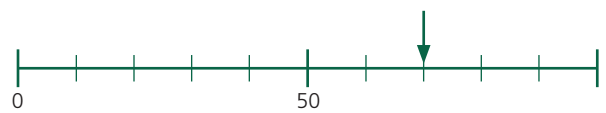
A | Answer

1 Write in words the missing number.

82, 81, 80, ▮, 78   seventy-nine

2 Write these numbers in digits.

a 7 tens 2 units   a 72

b 5 tens 0 units   b 50

3 58 + 30 =   88

4 72 − 50 =   22

5 8 × 4 = 4 × ▮   8

6 $2 - \frac{3}{4}$ = $1\frac{1}{4}$

7 92p = ▮ 10ps and ▮p   9 10ps and 2p

8 12 halves = ▮ whole ones   6

9 20 ÷ 4 =   5

10 Which number is missing from the sequence?

10, 15, 20, ▮, 30, 35, 40   25
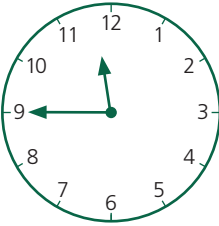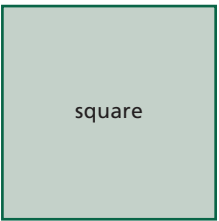
B | Answer

1 Find the sum of 40, 30 and 20.   90

2 T U   Write in words the number shown on the abacus.   thirty-seven

3 How many hours in a day?   24h

4 Share 32p equally among four children. How much each?   8p

5 Increase 50 by 27.   77

6 Take 32p from two 20ps.   8p

7 What number is 5 times greater than 8?   40

8 How many days in November?   30
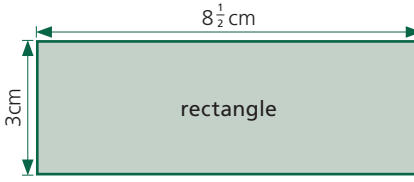
9 86 minus 40 plus 20.   66

10 How many pence is $\frac{3}{4}$ of 12p?   9p

C | Answer

1 What number is seven less than eighty-three?   76

2 Which of these numbers is nearest to 80?

83 75 86 78 84   78

3 What number is the arrow pointing to?   70

4 How many 5ps are equal in value to the sum of 16p and 14p?   6 5ps

5 Find one-quarter of the product of 8 and 3.   6

6 How much change from a 50p after spending 39p?   11p

7 Which sign +, −, × or ÷ is used in place of ●?

10 − 4 = 30 ● 5   ÷

8 One half of Marek's money is 26p. Find one-quarter of his money.   13p

9 How many children chose blue as their favourite colour?   4

red   ☺ ☺ ☺

yellow ☺ ☺

blue   ☺ ☺ ☺ ☺

one child = ☺

10 Find the total length of the four sides of the rectangle.   23cm

$8\frac{1}{2}$ cm

3cm   rectangle

15

Write the numbers 1 to 20 down the side of a sheet of paper.
Write alongside these numbers the **answers only** to the following questions.
Work as quickly as you can. Time allowed – **10 minutes**.

1. $7 + 0 + 9 =$ — 16

2. Find the difference between 8 and 15. — 7

3. Nine times 4 = — 36

4. Divide 45 by 5. — 9

5. Eight tens and 4 units. Write the number in words. — eighty-four

6. The shape stands for a whole one.
   What fraction of it is shaded? — $\frac{3}{4}$

7. After spending 16p and 20p, what change is there out of a 50p? — 14p

8. $76 - 40 =$ — 36

9. $60 + 33 =$ — 93

10. What is the total value of these coins? **50p** **20p** **10p** **5p** **2p** — 87p

11. Four sweets can be bought for 10p. How many sweets for 40p? — 16

12. Write in words the time shown on the clock. — quarter to twelve (or eleven forty-five)

13. $\frac{1}{4}$ of Javed's money is 15p. How much is $\frac{1}{2}$ of his money? — 30p

14. The distance all round the square is 28cm.
    Find the length of each side. — 7cm

    square

15. There are eight chairs in a row and five rows. How many chairs altogether? — 40

16. How many days in August and September together? — 61

17. Find the sum of $\frac{1}{2}$ of 8p and $\frac{1}{4}$ of 16p. — 8p

18. In this sequence which number is incorrect? 0, 5, 10, 15, 20, 25, 30, 34, 40 — 34

19. Three lines measure $12\frac{1}{2}$ cm, 3cm and $7\frac{1}{2}$ cm.
    By how many centimetres is the shortest line less than the longest line? — $9\frac{1}{2}$ cm

20. How many vertices does a cube have? — 8

You will work through Progress Test 1 at **four** different times – once at the end of Section 1, then again after you have completed each of Section 2 Test 4, Test 8 and Test 11.

When you first complete the test:

a colour the first column to show the number of answers correct out of 20

b enter the date.
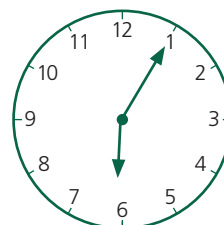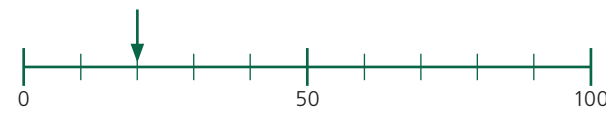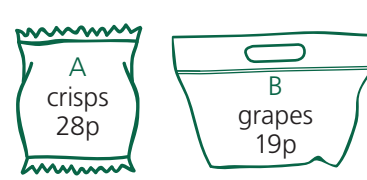
Each time you take the test, enter the result and the date in the marked columns.

number of answers correct	1st	2nd	3rd	4th
20				
19				
18				
17				
16				
15				
14				
13				
12				
11				
10				
9				
8				
7				
6				
5				
4				
3				
2				
1				
0				
date				

A | Answer

1	$0 \times 10 =$	0
2	$15 \div 5 =$	3
3	$18 + 8 =$	26
4	$23 - 7 =$	16
5	A 20p, a 10p and four 2ps =	38p
6	$7p + 5p + 8p =$	20p
7	€20 − €7=	€13
8	$\frac{1}{2} + \frac{1}{2} + \frac{3}{4} + \frac{1}{4} =$	2
9	$35 = \blacksquare \times 5$	7
10	$4 \times 8 =$	32

B | Answer

1 What number is 8 less than 100? **92**

2 Find the total of 27p, 12p and 10p. **49p**

3 How many tens in 90? **9**

4 Write < or > to make the statement true.

98 ▧ 102 **<**

5 How many $\frac{1}{2}$ cm in 15cm? **30**

6 Find the difference between 9 and 27. **18**

7 Add the even numbers.

13 21 8 19 16 **24**

8 $(3 \times 10) + \blacksquare = 36$ **6**

9 What number is 7 more than 45? **52**

10 Write the two missing numbers in this sequence.

0, 3, 6, 9, ▧, 15, ▧ **12 18**

C | Answer

1 Find the total value of these coins. **70p**

5p 5p 2p 2p 2p 2p 2p 50p

2 When 17 is taken from a number the answer is 13. What is the number? **30**

3 One-quarter of the length of a window measures $8\frac{1}{2}$ cm. Find the total length of the window. **34cm**

4 In a class of 32 children 19 were boys. How many were girls? **13**

5 How many minutes from the time on the clock to half past six? **25min**

6 Five friends win two prizes of 20p which they share equally. How much do they each receive? **8p**

7 What number is the arrow pointing to? **20**

0   50   100

8 Which of these numbers is nearest to 40?

34 32 42 37 45 **42**

9 Which is the cheaper, A or B, and by how much? **B by 9p**

A crisps 28p   B grapes 19p

10 $3 + 3 + 3 + 3 + 3 + 3 = \blacksquare \times 3$ **6 × 3**

$= \blacksquare$ **18**

A | Answer

1. $9p + 4p + 7p =$ — **20p**
2. $4 \times 3 =$ — **12**
3. $30 - 12 =$ — **18**
4. $2\frac{1}{4} = \blacksquare$ quarters — **9**
5. $3\overline{)15}$ — **5**
6. How many days in March? — **31**
7. $20p - 14p =$ — **6p**
8. Five 5ps + three 2ps = — **31p**
9. $17 - 4 = 6 + \blacksquare$ — **7**
10. $(0 \times 3) + 7 =$ — **7**

B | Answer

1. Write the two missing numbers in this sequence.
   30, 27, $\blacksquare$, $\blacksquare$, 18, 15 — **24   21**
2. Increase 23p by 8p. — **31p**
3. How many days in June and July altogether? — **61**
4. 7 times 3 — **21**
5. How much change from a 50p after spending 32p? — **18p**
6. How many threes in 27? — **9**
7. Add the odd numbers.
   | 19   12   20   5   8 | — **24**
8. By how many is 24 greater than 17? — **7**
9. (8×3) minus 10 — **14**
10. How many quarters in $1\frac{1}{2}$? — **6**
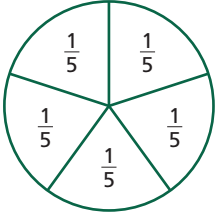
C | Answer

1. What is the cost of nine pencils at 5p each? — **45p**
2. Write the missing number.
   $6 \times 4 = \blacksquare \times 3$ — **8**
3. Which three coins together make a total of 62p? — **50p 10p   2p**
4. Add $\frac{1}{2}$ of 10 to $\frac{3}{4}$ of 8. — **11**
5. The heights of two cousins are $89\frac{1}{2}$ cm and 94cm. By how many centimetres is one taller than the other? — **$4\frac{1}{2}$ cm**
6. Name the month that comes
   a before August — a **July**
   b after March. — b **April**
7. Samina spends 7p, which is one-quarter of her money. How much had she at first? — **28p**
8. Divide 30 by 3 and then add 9. — **19**
9. Oscar gave six stickers to each of five friends. He had four left. How many had he at first? — **34**
10. Choose the correct unit of measurement to complete each statement.

    | kilogram   centimetre |
    | litre   gram   metre |

    a The length of Megan's classroom is 10 — **metres.**
    b Jack's weight is 35 — **kilograms.**
    c A jug holds 1 — **litre** — of water.

A | Answer

1. $100 - 30 =$ — 70

2. $21 \div 3 =$ — 7

3. $5 + 5 + 5 + 5 = \blacksquare \times 5 = \blacksquare$ — $4 \times 5 = 20$
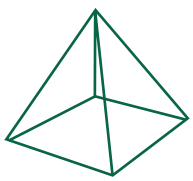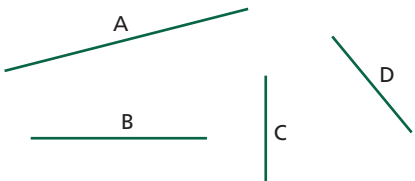
4. Nine 2ps + two 5ps = — 28p

5. $\frac{1}{4}$ of 32 = — 8

6. $10\overline{)80p}$ — 8p

7. $23 + 8 =$ — 31

8. $(7 \times 4) + 3 =$ — 31

9. $\frac{3}{4} + 1\frac{1}{2} =$ — $2\frac{1}{4}$

10. Double $(4 \times 3) = \blacksquare \times 3$ — 8

B | Answer

1. How many fours in 36? — 9

2. Multiply 10 by 5 and add 6. — 56

3. 1m = 100cm. How many centimetres in $\frac{1}{2}$m? — 50cm

4. Share 24p equally among three people. How much each? — 8p

5. What fraction of the strip is not shaded? — $\frac{9}{10}$

6. By how much is 19p less than three 10ps? — 11p

7. $34 = (4 \times 10) - \blacksquare$ — 6

8. How many minutes from five past six to a quarter to seven? — 40min

9. How much change from 35p after spending 24p and 7p? — 4p

10. Write the two missing numbers in this sequence.

    0, 6, 12, $\blacksquare$, 24, $\blacksquare$, 36 — 18 30

C | Answer

1. By how many centimetres is 70cm shorter than 1m? — 30cm

2. A number multiplied by itself makes 16. What is the number? — 4

3. Divide the total of 4, 6 and 8 by 3. — 6

4. A delivery of potatoes weighs 25kg. How many kilograms have been sold when 17kg are left? — 8kg

5. How many tenths are there in

    a 2 whole ones — a 20

    b $\frac{1}{2}$ a whole one? — b 5

6. How many flat faces does a cylinder have? — 2

7. There are 50l of water in a bath. 32l are emptied. How many litres are left in the bath? — 18l

8. By how much is packet A more expensive than packet B? — 7p

    A seeds 84p   B seeds 77p

9. What is a quarter of the difference between 36 and 24? — 3

10. $4 + 4 + 4 + 4 = \blacksquare \times 4$ — 4×4

    $= \blacksquare$ — 16

A | Answer

1. Fourteen 1ps are worth ▢ 2ps — **7** 2ps
2. $5 \times 6 =$ — **30**
3. $26 + 9 =$ — **35**
4. Three 10ps = ▢ 2ps — **15** 2ps
5. $1 - \frac{3}{10} =$ — **$\frac{7}{10}$**
6. $4\overline{)48}$ — **12**
7. $24kg - 7kg =$ — **17**kg
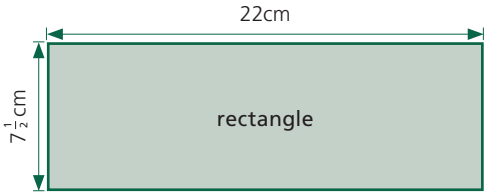8. $50p - 36p =$ — **14**p
9. $1\frac{1}{2}m + 3m + \frac{1}{2}m =$ — **5**m
10. $(3 \times 6) + 5 =$ — **23**

B | Answer

1. How many threes in 24? — **8**
2. How many pennies are worth two 50ps? — **100**p
3. By how many centimetres is $\frac{1}{2}$m longer than 33cm? — **17**cm
4. What number is 9 less than 22? — **13**
5. How many minutes in $1\frac{1}{2}$ hours? — **90**min
6. The circle is a whole one. How many fifths in three whole ones? — **15**
7. $(0 \times 6) + 8 =$ — **8**
8. How many days in December? — **31**
9. Find the total of 4 times 7p and 2 times 7p. — **42**p
10. If $8 \times 4 = 32$, what is 8×8 equal to? — **64**
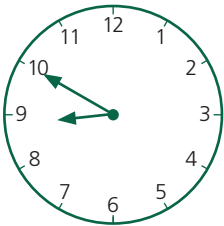
C | Answer

1. How many vertices does a square-based pyramid have? — **5**
2. Write the correct sign >, < or = in place of ●.

   5×6 ● $6 \times 1 \times 5$ — **=**
3. Jack received 14p change after spending 36p. Which coin did he give the shopkeeper? — **50**p
4. By how many centimetres is $\frac{1}{2}$m greater than $\frac{1}{4}$m? — **25**cm
5. How many 5-litre tins can be filled from 45l of paint? — **9**
6. James spent 6p, which was one-tenth of his money. How much money did he have in total? — **60**p
7. Which of these lines is horizontal? — **B**

8. A button costs 11p. What change is given from 20p? — **9**p
9. Lily has a £20 note, two £5 notes and a £10 note. She gives £25 to her brother. How much does she have left? — **£15**
10. The product of two numbers is 48. One of the numbers is 6. What is the other? — **8**

A | Answer

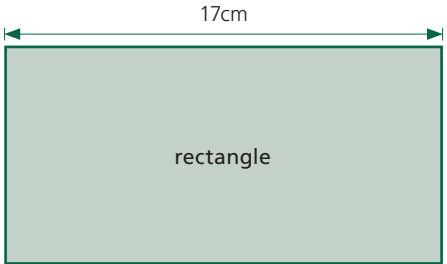|		
1	$70 = \square$ tens	7
2	Write in digits, three hundred.	300
3	$200 + 500 =$	700
4	$700 - 400 =$	300
5	$13p + 18p =$	31p
6	$\frac{1}{10}$ of 50p =	5p
7	$25p - 9p =$	16p
8	$(2 \times 8) + 5 =$	21
9	$7 = 28 \div \square$	4
10	$16 + 5 - 9 =$	12

B | Answer

1 Write the missing number in this sequence.

300, 400, 500, $\square$, 700 .... **600**

2 Find the total of 30p + 6p + 4p + 10p. **50p**

3 What number is 11 more than 59? **70**

4 How many centimetres in 3m? **300**cm

5 How many hours from 10 a.m. to 2 p.m.? **4h**

6 What fraction of this whole one is shaded? .... $\frac{1}{3}$

7 By how much is 22p less than three 10ps? **8p**

8 $8 + 8 + 8 + 8 + 8 +$ $8 + 8$ $= \square \times 8$ .... 7×8

  $= \square$ 56

9 How many quarters in $2\frac{1}{2}$? 10

10 Find the difference between 30 and the sum of 19 and 7. 4

C | Answer

1 Estimate which of the lines X, Y or Z measures 7cm. .... **Y**

  x ———————
  Y ———————————————
  z ————————

2 £1.00 = 100p. How many pence are worth £5.00? **500p**

3 What is the date four days after 29 December? .... **2 January**

4 Of 35 cars, one-fifth are blue and the rest red.

  How many are red? **28**

5 How many 6p stickers can be bought for two 20ps, one 10p and four 1ps? **9**

6 By how many centimetres is the length of the rectangle longer than the width? .... $14\frac{1}{2}$ cm

  22cm
  $7\frac{1}{2}$ cm   rectangle

7 What number when divided by 3 gives 8 for the answer? **24**

8 What fraction of these circles is white? .... $\frac{1}{4}$ or $\frac{2}{8}$

  ●○●●●○●

9 How much is needed to give eight children 6p each? **48p**

10 $\frac{1}{2}$ kg costs 14p. Find the cost of $1\frac{1}{2}$ kg. **42p**
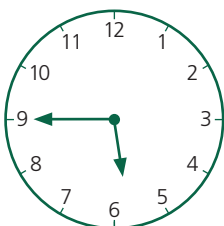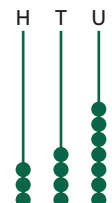
A — Answer

1. 83p = ☐ 10ps and ☐ 1ps — **8 10ps and 3 1ps**
2. Write in digits, four hundred and eighty. — **480**
3. 250 + 100 = — **350**
4. 720 − 100 = — **620**
5. One-third of 27p = — **9p**
6. 21 − 5 − 7 = — **9**
7. 30 − 3 = 40 − ☐ — **13**
8. 10 × 2 = ☐ × 4 — **5**
9. Six 2ps + 3p = ☐ 5ps — **3 5ps**
10. 48 ÷ 8 = — **6**

B — Answer

1. What number is halfway between 50 and 100? — **75**
2. Write the missing number in this sequence.
   490, 590, 690, ☐, 890 — **790**
3. One-tenth of a line measures $5\frac{1}{2}$ cm. Find the total length. — **55cm**
4. Write in words the time that is 1h and 40min later. — **half past ten (or ten thirty)**
5. How many 10ps in £1.00? — **10**
6. Find the difference between $\frac{3}{4}$ and 2. — **$1\frac{1}{4}$**
7. How many metres is 600cm? — **6m**
8. Divide 27 into three equal parts. Find one part. — **9**
9. Find the total of 300, 150 and 500. — **950**
10. Multiply 8 by 5 and then add 3. — **43**

C — Answer

1. A number minus 7 equals 19. What is the number? — **26**
2. By how many pence is £1.38 more than £1.00? — **38p**
3. The rectangle is twice as long as it is wide. Find the width. — **$8\frac{1}{2}$ cm**

   17cm

   rectangle

4. Two notes together make £40. What are the notes? — **£20   £20**
5. What number is the arrow pointing to? — **90**

   0 ————————————— 100

6. Ali has these coins. How much has he altogether? — **98p**

   50p 20p 10p 5p 5p 2p 2p 2p 2p

7. How many days are there from 28 May to 4 June? (Do not count 28 May.) — **7**
8. A bucket, when a quarter full, holds $3\frac{1}{2}$ l. How many litres will it hold when three-quarters full? — **$10\frac{1}{2}$ l**
9. Three breadsticks cost 12p. How much is paid for four breadsticks? — **16p**
10. Which of these lengths is nearest to 60cm?
    $\frac{1}{2}$ m, $62\frac{1}{2}$ cm, $58\frac{1}{2}$ cm, 66cm — **$58\frac{1}{2}$ cm**
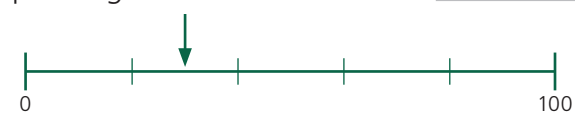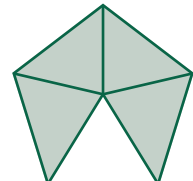
A

		Answer
1	$77 + 30 =$	107
2	Write in words the number 203.	two hundred and three
3	$450 + 300 =$	750
4	$890 - 500 =$	390
5	$8\overline{)24}$	3
6	£1.25 = £1 + ▢ pennies	25
7	$23 - ▢ = 17$	6
8	What comes next? 45, 85, 125, 165, ▢	205
9	$7 × ▢ = 21$	3
10	$40 + 6 = 30 + ▢$	16

B

		Answer
1	Find the sum of £1.00 and 45p.	£1.45
2	How many centimetres in 5m?	500cm
3	Complete this sequence. 310, 210, 110, ▢	10
4	Take 40 from 200.	160
5	Add the odd numbers between 16 and 20.	36
6	How many hours from 11 a.m. to midnight?	13h
7	Find the change from £1 after spending 85p.	15p
8	How many times 30 is 300?	10
9	What is the difference between a whole one and three-tenths?	$\frac{7}{10}$
10	$9 + 7 = 20 - ▢$	4

C

		Answer
1	£1 is worth one 50p and some 5ps. How many 5ps?	10 5ps
2	What number is 10 more than 490?	500
3	The lengths of four lines are $8\frac{1}{2}$cm, $4\frac{1}{2}$cm, 17cm, 24cm. Find the difference between the shortest and the longest lines.	$19\frac{1}{2}$ cm
4	The time on this clock is 20 minutes slow. Write the correct time in words.	five past six
5	48p is divided equally among six children. How much each?	8p
6	There are four glasses of juice in a litre. How many litres are needed to give 36 children a glass each?	9l
7	By how much is $\frac{1}{3}$ of 30p greater than $\frac{1}{5}$ of 30p?	4p
8	● stands for a missing sign, +, −, × or ÷. $8 × 0 = 4 ● 4$ What is the correct sign?	−
9	Sasmita buys two sweets at 7p each. How much change out of a 50p does she receive?	36p
10	H T U Write in words the number shown on this abacus.	three hundred and forty-seven

A

		Answer
1	$400 + 20 + 6 =$	**426**
2	£0.72 = ▭ p	**72**p
3	$40 \div 8 =$	**5**
4	$5 \times 3 \times 0 =$	**0**
5	1m 38cm = ▭ cm	**138**cm
6	$97 - 50 =$	**47**
7	13 quarters = ▭	**3$\frac{1}{4}$**
8	4p + ▭ p = one 20p	**16**p
9	$100 - 20 =$	**80**
10	$18 \div 3 =$	**6**

B

		Answer
1	How many tens are there in 380?	**38**
2	What number is one more than 499?	**500**
3	By how many centimetres is 1m 55cm longer than 1m?	**55**cm
4	How many 2ps are worth one 50p?	**25** 2ps
5	Share nine times 5p equally among five girls. How many pennies each?	**9**p
6	£1.00 = ▭ 20ps	**5** 20ps
7	How many minutes from twenty to 12 until half past 12?	**50**min
8	$1\frac{1}{2}$ = ▭ tenths	**15**
9	What is the value of the 5 in the number 542?	**500**
10	Write the next number in this sequence. 133, 123, 113, 103, ▭	**93**

C

		Answer
1	What number is the arrow pointing to?	**30**

		Answer
2	Rearrange the digits 6, 9, 8 to make the largest possible number.	**986**

		Answer
3	What fraction of this shape is shaded?	$\frac{4}{5}$
4	Write as £s this sum of money. £3 and 27p.	£**3.27**
5	A piece of wood is 18cm shorter than 1m. How long is the piece of wood?	**82**cm
6	On a trip Ellie pays half fare, which is £8. How much is the total fare for Ellie and her mother?	£**24**
7	How many children chose red as their favourite colour?	**3**

red | ☺ ☺ ☺
yellow | ☺ ☺ ☺ ☺
blue | ☺

one child = ☺

		Answer
8	Tom bought a toy for 68p. How much change did he receive from £1?	**32**p
9	$\frac{1}{3}$ of a sum of money is 12p. How much is $\frac{2}{3}$ of the money?	**24**p
10	Each centimetre on this line stands for 8m. What length in metres does the line stand for?	**48**m

cm

A | Answer

1	$29 + 7 =$	36
2	$25 - 6 =$	19
3	$600 + 70 + 6 =$	676
4	$145cm = \square m \square cm$	1m 45cm
5	$9 \times 2 = \square \times 6$	3
6	$1\frac{1}{2} - \frac{3}{4} =$	$\frac{3}{4}$
7	How many days in June?	30
8	$£0.14 = \square p$	14p
9	$96 \div 8 =$	12
10	$(7 \times 4) + 3 =$	31

B | Answer

1	Add together 3p, 6p and 14p.	23p
2	$6 \times 8 = \square$ tens $\square$ units	4 T 8 U
3	By how many centimetres is $\frac{1}{2}$ m longer than 38cm?	12cm
4	Find the missing numbers. $329 = \square$ tens $\square$ units	32 T 9 U
5	Increase £1.07 by 3p.	£1.10
6	What number is 20 less than 600?	580
7	Complete this sequence. $\frac{1}{3}, \frac{2}{3}, 1, 1\frac{1}{3}, 1\frac{2}{3}, \square$	2
8	Share 28p equally among four people.	7p
9	How many minutes from five to nine a.m. to twenty past nine a.m.?	25min
10	£1.00 is worth four 20ps and $\square$ p.	20p

C | Answer

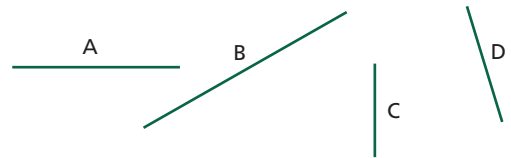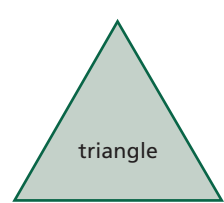|		
1	Jo has five bank notes of the same value. She has £100. What value is each note?	£20
2	Which coin has the same value as £0.05?	5p
3	What number when divided by 3 gives 9 for the answer?	27
4	By how many kilograms is bag A heavier than bag B?	18kg

A 27kg   B 9kg
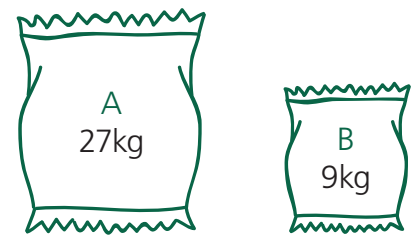
5	132 children each give 1p to the school fund. Write the total as £s.	£1.32
6	At what measurement is the middle point of a line of this length?	$12\frac{1}{2}$ cm

25cm

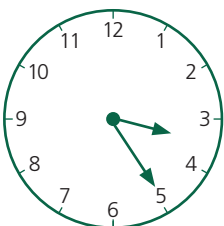|		
7	By how much is 95p less than £1.05?	10p
8	If the date of the first Monday in January is the 6th, what is the date of the fourth Monday in the month?	27th
9	Which of these parts of a cake is the largest? $\frac{1}{4}, \frac{1}{2}$ or $\frac{1}{3}$	$\frac{1}{2}$
10	This is a row of stamps. How many are there in a sheet of eight rows?	48

A | Answer

1	24 − 8 =	16
2	3 + 39 =	42
3	(6 × 8) + 4 =	52
4	700 + 40 + 2 =	742
5	1m 44cm = ▢ cm	144cm
6	10 × 4 = 8 × ▢	5
7	£1.00 + 6p =	£1.06
8	Three-quarters of 1 hour = ▢ minutes	45min
9	24 ÷ ▢ = 8	3
10	5 × 0 = 6 − ▢	6
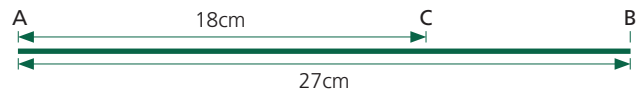
B | Answer

1	How many tens in 400?	40
2	Divide 42 into 6 equal parts. Find one part.	7
3	Find the product of 9 and 4.	36
4	From £1.00 take 12p.	88p
5	What number is 10 more than 192?	202
6	One 50p + ▢ 5ps = £1.00	10 5ps
7	Complete the sequence. 115, 110, 105, 100, ▢	95
8	By how many centimetres is $\frac{1}{2}$m longer than 26cm?	24cm
9	Write in words the time that is three-quarters of an hour after ten to eight in the evening.	eight thirty-five p.m. (or twenty-five to nine p.m.)
10	What is the value of the digit underlined in the number 3<u>6</u>7?	60

C | Answer

1	In a class there were 26 children. Eight of them were girls. How many were boys?	18
2	Which of these lines is vertical?	C

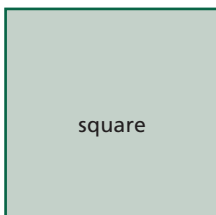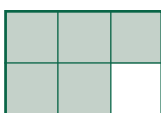|		
3	By how much is the largest of these sums of money greater than the smallest? £0.96 £1.10 £0.98 £1.07	14p
4	Write the name of the shape that is the flat face of a cone.	circle
5	Name the month of the year that comes before August.	July
6	How many 5ps must be added to 80p to make £1.00?	4 5ps
7	20 people can travel on a minibus. How many buses are needed to carry 100 people?	5
8	What is the cost of $1\frac{1}{2}$m of material at 18p per metre?	27p
9	Shenaz has one 50p and eight 1ps in her purse. She spends 39p. How much has she left?	19p
10	The triangle has three equal sides. The total length of the sides is 12cm. What is the length of one side?	4cm

A

		Answer
1	$300 + 20 + 7 =$	327
2	$(6 \times 3) + 2 =$	20
3	$24 \div \blacksquare = 4$	6
4	$1m\ 9cm = \blacksquare cm$	109cm
5	$\frac{1}{3}$ of 21p =	7p
6	$209 = \blacksquare$ tens 9 units	20 T
7	Write as £s: two pounds 20 pence.	£2.20
8	$106 - 20 =$	86
9	$\frac{1}{2}$ hour + 15min = $\blacksquare$ min	45min
10	$£1.00 - 16p =$	84p

B

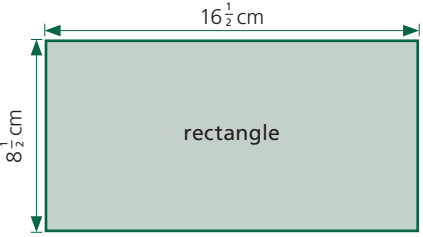|		Answer
1	Complete this sequence. 407, 307, 207, 107, $\blacksquare$	7
2	Find the total of 19, 7 and 5.	31
3	How many centimetres in $2\frac{1}{2}$m?	250cm
4	How many minutes to the next hour?	35min
5	By how much is 76p greater than 50p?	26p
6	$202 = (20 \times \blacksquare) + 2$	10
7	Add four to zero times five.	4
8	What must be added to 86p to make £1.00?	14p
9	How many $\frac{1}{2}$kg in 8kg?	16
10	$68p = $ five 10ps + $\blacksquare$ 2ps	9 2ps

C

		Answer
1	60 chairs are arranged in rows of 10. How many rows?	6
2	Kieran spent 10p and 8p. He had 5p left. How much had he at first?	23p
3	If the line AB is 27cm long and the line AC is 18cm long, how long is CB?	9cm
4	Which two of these sums of money when added together make 40p? 11p 12p 19p 28p	12p 28p
5	The difference between two numbers is 9. The smaller number is 18. What is the larger number?	27
6	$\frac{3}{4}$ of Chloe's money is 27p. What is $\frac{1}{4}$ of her money?	9p
7	A shop closes from half past 12 p.m. until 2 p.m. For how many hours and minutes is the shop closed?	1h 30min
8	Find the cost of 2kg of potatoes at 20p per $\frac{1}{2}$kg.	80p
9	What number when multiplied by 5 will give a product of 100?	20
10	A carton of milk costs 48p. Faye pays with an equal number of 5ps and 1ps. How many of each coin does she use?	8

A | Answer

1. Write in digits the number five hundred and seven. — **507**

2. 194 + 8 = — **202**

3. $\frac{1}{8}$ of 24p = — **3p**

4. 403cm = ▢m ▢cm — **4m 3cm**

5. 700 – 90 = — **610**

6. £1.54 = ▢p — **154p**

7. (4 × 8) + 5 = — **37**

8. How many days in March? — **31**

9. One 50p + three 10ps + two 2ps = — **84p**

10. 10 × 10 × 10 = — **1000**

B | Answer

1. What number must be added to 52 to make 70? — **18**

2. To £1.06 add 40p. — **£1.46**

3. From £1.58 take 16p. — **£1.42**

4. Increase $8\frac{1}{2}$ cm five times. — **$42\frac{1}{2}$ cm**

5. Write < or > to make the statement true.
   479 ▢ 481 — **<**

6. How many quarters in $5\frac{1}{2}$? — **22**

7. Complete this sequence.
   94, 96, 98, 100, ▢ — **102**

8. Name the month that is three months after November. — **February**

9. How many hundreds in 1000? — **10**

10. Share 36p equally among four friends. How much each? — **9p**

C | Answer

1. Which two of these sums of money when added together make 50p?

   13p 18p 27p 32p — **32p 18p**

2. How many times is the 5 in 51 greater than the 5 in 15? — **10**

3. A petrol tank, which holds 60l, is $\frac{3}{4}$ full. How many more litres will it take? — **15l**

4. square — The total length of the four sides of the square is 38cm. Find the length of one side. — **$9\frac{1}{2}$ cm**

5. A TV programme starts at quarter to six and ends 35min later. Write in words the time it finishes. — **twenty past six**

6. What number is the arrow pointing to? — **70**

   0 ⟶ 100

7. Which of these amounts of money is nearest to £1.00?

   £1.10 95p £0.98 £1.05 — **£0.98**

8. Three numbers when added together total 639. One number is 9 and another is 600. Find the third. — **30**

9. What fraction of the shape is shaded? — **$\frac{5}{6}$**

10. Five biscuits cost 25p. How much is paid for two biscuits? — **10p**

29

Write the numbers 1 to 20 down the side of a sheet of paper.
Write alongside these numbers the **answers only** to the following questions.
Work as quickly as you can. Time allowed – **10 minutes**.

1   7 + ▢ = 15   _8_

2   23 minus 9 =   _14_

3   There are four apples in a bag. How many apples are there in six bags?   _24_

4   Share 20p and two 2ps equally among four people. How much each?   _6p_

5   There are 10 stamps in a row. How many stamps are there in a sheet of 10 rows?   _100_

6   Write in digits the sum of five hundreds, seven tens and three units.   _573_

7   What number is 5 more than 199?   _204_

8   Take 7 from 403.   _396_

9   How many days in September and October put together?   _61_

10   How many 10p coins are given in exchange for £3.60?   _36_

11 $\frac{1}{8}$ of the length of a piece of wood measures 9cm. What is its whole length?   _72cm_

12   The time shown on a clock is five past eight but it is 20 minutes fast.
Write the correct time.   _quarter to eight_
(or seven forty-five)

13   Find in £s the total value of these coins.   £1.09

50p   20p   10p 10p   5p 5p 5p   2p 2p

14   How much change from £1 after buying a plum for 12p and an apple for 27p?   _61p_

15   A parcel has a mass of 25kg. Another parcel is $6\frac{1}{2}$kg lighter.
Find the mass of this parcel.   _$18\frac{1}{2}$kg_

16   A length of cloth measures 208cm. Write this length in metres and centimetres.   _2m 8cm_

17   Find the total number of days in the last two months of the year.   _61_

18   James puts nine books in each of five boxes. He has four books left.
How many has he altogether?   _49_

19   An ice lolly costs 34p. Find the cost of three lollies.   £1.02

20   Find in centimetres the distance all round the rectangle.   _50cm_

$16\frac{1}{2}$ cm

$8\frac{1}{2}$ cm

rectangle

You will work through Progress Test 2 at **four** different times – once at the end of Section 2, then again after you have completed each of Section 3 Test 4, Test 8 and Test 12.
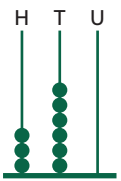
When you first complete the test:

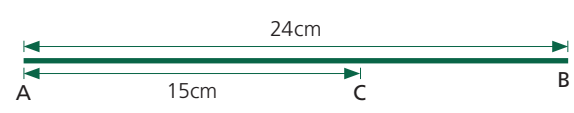a colour the first column to show the number of answers correct out of 20

b enter the date.

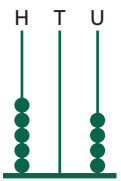Each time you take the test, enter the result and the date in the marked columns.

number of answers correct	1st	2nd	3rd	4th
20				
19				
18				
17				
16				
15				
14				
13				
12				
11				
10				
9				
8				
7				
6				
5				
4				
3				
2				
1				
0				
date				

A | Answer

1. H T U What is the number shown on the abacus? — **360**

2. 13 + 9 = — **22**

3. 31 − 4 = — **27**

4. 8 + 8 + 8 + 8 + 8 =
   ☐ × 8 = ☐ — **5 × 8 = 40**

5. 24 ÷ 4 = — **6**

6. £1.37 = £1 and ☐ p — **37p**

7. 307cm = ☐ m ☐ cm — **3m 7cm**

8. $1\frac{1}{2}$h = ☐ min — **90min**

9. 56 ÷ 8 = — **7**

10. Four 5ps and nine 2ps = — **38p**
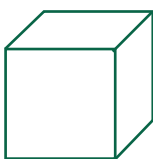
B | Answer

1. What is the missing number?
   582 = 500 + ☐ + 2 — **80**

2. Increase 95p by 15p = £☐ — **£1.10**

3. What number is 7 less than 204? — **197**

4. Georgia is watching TV at half past four in the afternoon. Is this time a.m. or p.m.? — **p.m.**

5. How much change out of 20p after spending 8p? — **12p**

6. How many 5ps are worth three 10ps and five 2ps? — **8**

7. A piece of wood is cut into three equal parts. What fraction of the whole is each part? — **$\frac{1}{3}$**

8. Find the difference between the longest and shortest of these lengths.

   | $9\frac{1}{2}$cm | 26cm | $18\frac{1}{2}$cm | $30\frac{1}{2}$cm |

   — **21cm**

9. How many whole ones in 20 quarters? — **5**

10. 10 × ☐ p = £1.70 — **17p**

C | Answer

1. What number is added to 409 to make 449? — **40**

2. Sam has 6p and Abi has 14p more. How much have they altogether? — **26p**

3. Monday is 30 April. What is the date on the next Thursday? — **3 May**

4. Which of these weights is nearest to 20kg?

   | 19kg 20$\frac{1}{2}$kg 14kg 22kg |

   — **20$\frac{1}{2}$kg**

5. How much has Preeti spent if she has 11p change out of a 50p? — **39p**

6. Find the length of the line CB. — **9cm**

   24cm
   A 15cm C B

7. Jess has saved eight 10ps. How much more must she save to buy a magazine costing £1.25? — **45p**

8. Which of these numbers is a multiple of 4?

   | 14 18 22 24 |

   — **24**

9. Eight balloons cost 56p. Find the cost of one balloon. — **7p**

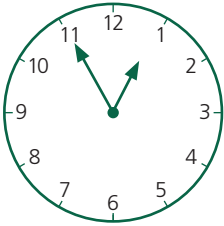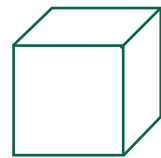10. The picture shows a layer of doughnuts in a box. How many doughnuts are in a box of four layers? — **32**
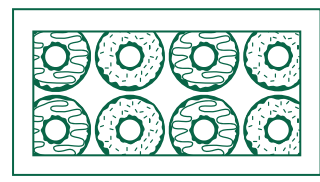
A | Answer

1. Write the number shown on the abacus. **504**

2. 75 + 8 = **83**

3. 63 − 7 = **56**

4. 9 × 4 = 4 × ▇ = ▇ **9   36**

5. 3 weeks = ▇ days **21**

6. 2m 40cm = ▇cm **240cm**

7. (8 × 0) + 5 = **5**

8. 36 ÷ 3 = **12**

9. Three pounds 29p = £▇ **£3.29**
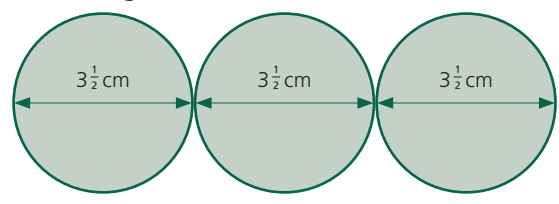
10. One thousand = 100 × ▇ **10**

B | Answer

1. What number is 300 less than 780? **480**

2. Decrease £1.15 by 20p. **95p**

3. Find the total of 8p, 9p and 10p. **27p**

4. How many fives are there in 500? **100**

5. Write in words the time $\frac{1}{4}$ hour after ten to 11. **five past eleven**

6. What is $\frac{3}{4}$ of 16? **12**

7. Find the missing sum of money.

   ▇p ÷ 5 = 7p **35p**

8. How many 5ps have the same value as two 20ps and five 2ps? **10 5ps**

9. Divide a length of 36cm into six equal parts. What is the length of each part? **6cm**

10. Take 37cm from $\frac{1}{2}$ metre. How many centimetres are left? **13cm**

C | Answer

1. This cube is standing on a table. How many of its edges are vertical? **4**

2. What number is taken from 376 to leave 306? **70**

3. Which of these fractions is

   a the largest

   b the smallest?

   | $\frac{1}{3}$ | $\frac{1}{2}$ | $\frac{1}{4}$ | $\frac{1}{10}$ |

   a $\frac{1}{2}$

   b $\frac{1}{10}$

4. The time on Joseph's watch is five past 3 but the correct time is ten to 3. Is his watch fast or slow and by how many minutes? **fast by 15min**

5. In a collection there were 309 1ps. Write this amount as £s. **£3.09**

6. Which of these numbers is a multiple of 3?

   | 28 20 16 12 | **12**

7. What number when multiplied by itself gives 25 as the answer? **5**

8. One-third of Ben's money is 9p.

   a What value is $\frac{2}{3}$ of his money? **a   18p**

   b How much money does he have in total? **b   27p**

9. Isla received 15p change after spending 35p. Which coin did she use to pay? **50p**

10. How many children chose monkeys as their favourite animal? **4**

tiger | ☺
giraffe | ☺ ☺ ☺
monkey | ☺ ☺

☺ = two children

33

SECTION 3 | Test 3

A | Answer

1. Write this number in digits.
Seven hundred and eleven   **711**

2. 29 + 40 =   **69**

3. 81 − 30 =   **51**

4. 513 = � tens 3 units   **51 T**

5. 3 × 3 × 3 =   **27**

6. $\frac{1}{10}$ of 90p =   **9p**

7. £1.00 = one 50p + ▢ 2ps   **25 2ps**

8. 3m 20cm = ▢cm   **320cm**

9. How many days in October?   **31**

10. 72 ÷ 8 =   **9**

B | Answer

1. What number is 8 more
than 493?   **501**

2. From 20 take the product
of 4 and 5.   **0**

3. Write the correct sign +, −,
× or ÷ in place of ●.
13 − 7 = 12 ● 2   **÷**

4. This clock is
1 hour fast.
Write in
words the real
time and use
a.m. or p.m.

   afternoon   **eleven fifty-five a.m.
(or five to twelve p.m.)**

5. By how much is 7p less
than 19p?   **12p**

6. Find the total of £1.20
and £1.80.   **£3.00**

7. $3 - \frac{1}{4} - \frac{1}{2} =$ **$2\frac{1}{4}$**

8. Write the missing number
in this sequence.
350, 300, 250, 200, ▢, 100   **150**

9. What is the sum of 325g
and 50g?   **375g**

10. How many days in May, June
and July in total?   **92**

C | Answer

1. What is the value of the 4
in the number 648?   **40**

2. Carrots cost 70p per kg.
How much would $1\frac{1}{2}$ kg cost?   **£1.05**

3. What number is two hundred
more than 707?   **907**

4. **Pens
3 for 20p**   How many pens
are bought
for 80p?   **12**

5. Which of these numbers
is a multiple of 8?

   73   85   56   50   59   **56**

6. Emily moves house on
10 February and Dan moves
house on 10 November.
How many months earlier than
Dan does Emily move house?   **9**

7. This cube is
standing
on a table.
How many of
its edges are
horizontal?   **8**

8. Priya saves one 20p each
month. How much does she
save in one year?   **£2.40**

9. $\frac{1}{2}$ of a sum of money is
£1.40. What is $\frac{1}{4}$ of the
money?   **70p**

10. 10 of these circles are placed
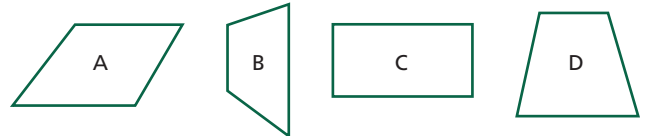side by side, as shown in
the picture. What is the
total length?   **35cm**

   $3\frac{1}{2}$ cm $3\frac{1}{2}$ cm $3\frac{1}{2}$ cm

A | Answer

1. Write this number in words.

   500 + 9 — **five hundred and nine**

2. 50 + 48 = — **98**

3. 70 − 29 = — **41**

4. 239 = ▢ hundreds ▢ units — **2 H   39 U**

5. (8 × 1) + 5 = — **13**

6. $\frac{1}{5}$ of 35p = — **7p**

7. £1.00 = nine 10ps and ▢ 2ps — **5 2ps**

8. 500cm = ▢m — **5m**

9. 1h 20min + ▢ min = 2h — **40min**

10. 32 ÷ 4 = — **8**
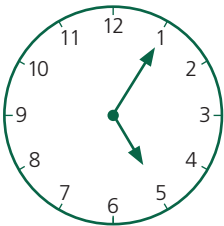
B | Answer

1. What number is 10 less than 1000? — **990**

2. Find the difference between $1\frac{3}{4}$ and 3. — **$1\frac{1}{4}$**

3. What number is equal to (9 × 8) + 3? — **75**

4. Find the change from three 10ps after spending 18p and 6p. — **6p**

5. From £1.30 take 50p. — **80p**

6. By how many centimetres is 405cm greater than 4m? — **5cm**

7. What is the missing number?

   ▢ × 8 = 96 — **12**

8. Find the total value of these coins. — **87p**

9. 2 × 2 × 2 × 2 = — **16**

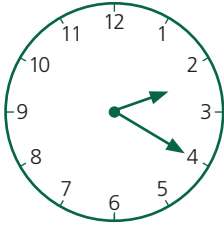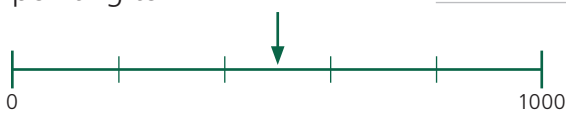10. 1000g = 1kg. How many grams is $\frac{1}{2}$kg? — **500g**

C | Answer

1. In a bag there are nine 1ps and the same number of 2ps. How much are all the coins worth? — **27p**

2. Some peaches were cut into quarters. There were then 40 pieces. How many peaches were cut? — **10**

3. 505 people were at a concert. 200 were men, 200 were women and the rest children. How many children were there? — **105**

4. 4kg of dog food costs 48p. Find the price per kilogram. — **12p**

5. This bar of chocolate is divided into squares. How many squares of chocolate are there in two bars? — **40**
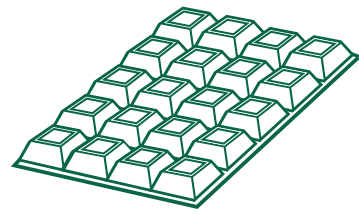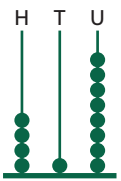

6. Mia measures 142cm in height. By how many centimetres is she taller than 1m? — **42cm**

7. Louis gets on the bus at twenty to four. He arrives home at quarter past four. How many minutes does the journey take? — **35min**

8. Which of these numbers is a multiple of 5?

   | 23 | 40 | 17 | 34 | 53 | — **40**

9. Write < or > to make this statement true.

   (500 − 30) ▢ 472 — **<**

10. Which of these shapes, A, B, C or D, is a rectangle? — **C**

A | Answer

1. 200 + 300 + 72 = ___ **572**

2. One thousand = (4 × 100) + ▢ ___ **600**

3. 4 × 10 = 5 × ▢ ___ **8**

4. 17 − 9 = 12 − ▢ ___ **4**

5. £0.37 = ▢ p ___ **37**p

6. How many grams in $1\frac{1}{2}$ kg? ___ **1500**g

7. 26 + 13 + 7 = ___ **46**

8. 24 ÷ 8 = 12 ÷ ▢ ___ **4**

9. Twice $6\frac{1}{4}$ l = ___ **12$\frac{1}{2}$**l

10. $\frac{1}{10}$ kg = ▢ g ___ **100**g

B | Answer

1. What number is added to 306 to make 366? ___ **60**

2. Double 9 and then add 7. ___ **25**

3. By how much is 82p less than £1.00? ___ **18**p

4. What fraction of 1kg is 200g? ___ **$\frac{1}{5}$**

5. How many minutes from the time on the clock to half past 5? ___ **25**min

6. Find the total length of 27cm, 40cm and 8cm. ___ **75**cm

7. Write the name of the sixth month in the year. ___ **June**

8. By how many pence are five 5ps less than four 10ps? ___ **15**p

9. How many times can a length of 8cm be cut from 64cm? ___ **8**

10. Which of these numbers is nearest to 50?

    | 45 | 56 | 43 | 58 |

    ___ **45**

C | Answer

1. This picture shows a square-based pyramid standing on a table. How many of its edges are horizontal? ___ **4**

2. Which two of these sums of money when added together make 20p?

    | 6p | 9p | 8p | 14p |

    ___ **6**p **14**p

3. 1kg of cheese costs £7.80. Find the cost of one-tenth of 1kg. ___ **78**p

4. The number 27 is a multiple of which of these numbers? ___ **3**

    | 6 | 5 | 4 | 3 |

5. Darcy saves 10p each day for a fortnight. Find her total savings. **£1.40** ___

6. Guess (estimate) which of these lines, X, Y or Z, measures 5cm. ___ **Z**

    X ————————————————
    Y ——————————————————
    Z ——————————

7. Sara loses four of these hairclips. What fraction of all the hairclips has she lost? ___ **$\frac{1}{3}$ or $\frac{4}{12}$**

8. How many hours and minutes after midday is the time on the clock? ___ **2**h **20**min

9. What number is the arrow pointing to? ___ **500**

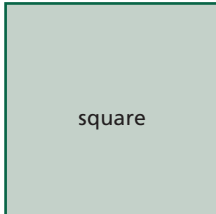10. Matthew has these coins. How much more must he save to have £1.00? ___ **18**p

A | Answer

1. H T U Write in words the number shown on the abacus.

   four hundred and eighteen

2. 40 + 30 + 7 = **77**

3. (8 × 4) − 12 = **20**

4. $\frac{1}{10}$ of five hundred = **50**

5. 19 − 6 = 7 + ▪ **6**

6. $\frac{1}{3}$ of six 10ps = ▪ p **20p**

7. 90 − 40 − 3 = **47**

8. 204 = ▪ tens ▪ units **20 T 4 U**
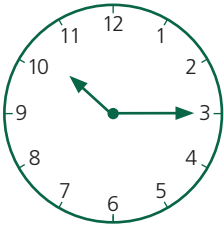
9. 7 × 8 × 0 = **0**

10. 1kg − 200g = ▪ g **800g**

B | Answer

1. Rearrange the digits 7, 3, 5 to make the smallest possible number. **357**

2. Find the number that is thirty more than four times zero. **30**

3. Share £1.50 equally among 10 people. How much each? **15p**

4. Find the difference between 700g and 1kg. **300g**

5. What fraction of the shape is shaded? **$\frac{2}{3}$**

6. How many minutes are there from quarter past twelve to one o'clock? **45min**

7. 5p plus three 2ps plus four 5ps **31p**

8. Find the change from 30p after spending 12p and 9p. **9p**

9. 10 × 4 × 10 = **400**

10. 1 litre (l) = 1000 millilitres (ml). How many millilitres in $\frac{1}{2}$ litre? **500ml**

C | Answer

1. A daily newspaper costs 30p. How much is paid for the days Monday to Saturday? **£1.80**

2. How many $\frac{1}{2}$l bottles can be filled from 8l of water? **16**

3. RAFFLE TICKET | number **390** | 50p What is the number on the raffle ticket when 20 more have been sold? **410**

4. How much would be paid for the 20 tickets? **£10.00**

5. There are 30 dogs in a park. $\frac{2}{3}$ of them are brown. How many is that? **20**

6. On this line 1cm stands for 5m. How many metres does the whole line stand for? **35m**

   cm

7. Six friends shared a prize equally. They each received 8p and there were two 1ps left. What was the value of the prize? **50p**

8. Alfie is 1m 35cm tall and Sofia is 142cm tall. By how many centimetres is Sofia taller than Alfie? **7cm**

9. A notebook and pencil cost 70p. The pencil cost 11p. How much did the notebook cost? **59p**

10. square A square has
    a ▪ equal sides **a 4**
    b ▪ right angles. **b 4**

37
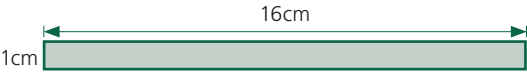
A | Answer

1. Write in words the number that is the same as 40 tens.   **four hundred**

2. 19 + 17 + 1 =   **37**

3. 65 − 35 =   **30**

4. 16p × 2 =   **32**p

5. $8\overline{)56}$ **7**

6. 1m − 40cm = ☐ cm   **60**cm

7. 40p + £2.00 = £☐   £**2.40**

8. $3 \times 1\frac{1}{4} =$ **3**$\frac{3}{4}$

9. 100 + 60 + 50 =   **210**

10. $\frac{1}{5}$ of 1kg = ☐ g   **200**g

B | Answer

1. Find the sum of 480 and 30.   **510**

2. 9 + 8 = ☐ + 10. What is the value of the missing number?   **7**

3. How many months are there from 30 April to 30 November?   **7**

4. From 2m take 45cm.   1m **55**cm

5. How many 2ps are changed for five 10ps?   **25** 2ps

6. What is the time 3 hours later than the time on the clock?   **1.15**

7. By how many grams is 380g less than $\frac{1}{2}$ kg?   **120**g

8. Which of these lengths is nearest to $\frac{1}{2}$ m?   **51**cm

    $48\frac{1}{2}$cm   53cm   46cm   51cm

9. Find the total of 25p and £1.80.   £**2.05**

10. One-third of 24l   **8**l

C | Answer

1. 180 party invitations are put into packets of 10. How many packets?   **18**

2. Which of these numbers is a multiple of both 5 and 10?

    35   15   46   25   90   **90**

3. 28 March is the first day of a holiday which ends on 5 April. How many days?   **9**

4. A lemon costs 11p. How many lemons can be bought for six 10ps and three 2ps?   **6**

5. All the pencils are shared equally among three children. How many pencils each?   9 pencils   18 pencils   **9**

6. How many children chose running as their favourite sport?   **15**

    swimming ☺
    running ☺ ☺ ☺   ☺ = 5 children
    football ☺ ☺

7. How many packets can be filled from 1kg of cereal?   CEREAL 250g   **4**

8. By how many is $\frac{1}{10}$ of 70 less than $\frac{1}{4}$ of 80?   **13**

9. Holly gave £1 to pay for her magazine. She received in change one 2p, six 1ps and one 5p. Find the cost of the magazine.   **87**p

10. Which of these angles, A, B, C or D, is a right angle?   **B**

A | Answer

1. 20 + 80 + 30 + 4 = **134**

2. Write in words the number that equals 15 tens and three.
   one hundred and fifty-three

3. 100 − 76 = **24**

4. (4 × 8) + 5 = **37**

5. 20p − 11p = **9p**

6. 44 ÷ 4 = **11**

7. $\frac{1}{2}$ of $3\frac{1}{2}$ kg = **$1\frac{3}{4}$ kg**

8. 68p = three 20ps + ▢ 2ps **4** 2ps

9. 5 + 9 + 7 = 9 + ▢ + 5 **7**

10. £1.46 − 90p = ▢ p **56p**

B | Answer

1. What number is equal to the sum of 10 tens and 18? **118**

2. Multiply by 6 the difference between 13 and 8. **30**

3. What is the next even number that is greater than 48? **50**

4. Find the cost of $1\frac{1}{2}$ kg at 90p per $\frac{1}{2}$ kg. **£2.70**

5. What fraction of this shape is shaded? **$\frac{5}{6}$**

6. By how many centimetres is 1m 56cm less than 2m? **44cm**

7. Find the change from a 50p after spending 14p. **36p**

8. Which of these measurements is nearest to 1m?

   | 85cm | 93cm | 102cm | 96cm |

   102cm

9. How many faces has a cone? **2**

10. How many times can 3 be taken from 21? **7**
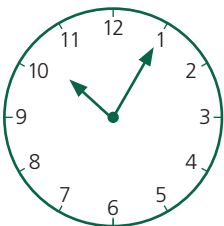
C | Answer

1. Find the total cost of two postcards at 7p each and two at 9p each. **32p**

2. What is the smallest whole number that can be divided by both 3 and 4? **12**

3. A centimetre square has four equal sides each measuring 1cm. How many centimetre squares could be fitted into this rectangle? **16**

   16cm
   1cm

4. Harry lost 15p, which was $\frac{3}{4}$ of his money. How much had he at first? **20p**

5. An eight-day camping trip started on 25 May. On what date did it end? **1 June**

6. How much change out of two 50ps after paying for $1\frac{1}{2}$ kg of bananas at 64p per kg? **4p**

7. Paper clips are bought at three for 8p. How many for two 20ps? **15**

8. How many children had one sister? **30**

   number of sisters   ☺ = 10 children

   3 | ☺
   2 | ☺ ☺
   1 | ☺ ☺ ☺
   0 | ☺

9. Amelia has 4p, Poppy 11p and Preet 9p. If all their money is shared equally, how much will each person have? **8p**
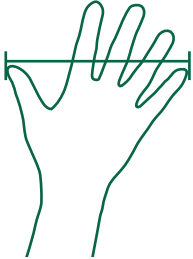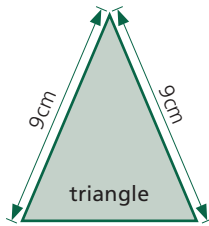
10. How many vertices in a cuboid? **8**

A | Answer

1. $(5 \times 100) + (3 \times 10) =$ — **530**

2. $6 + 20 + 7 =$ — **33**

3. $(6 \times 5) + 3 =$ — **33**

4. $20cm - 5\frac{1}{2}cm =$ — **$14\frac{1}{2}$ cm**

5. $240 = 10 + \square + 200$ — **30**

6. $\frac{1}{2}kg - 100g = \square g$ — **400g**

7. $\square \div 5 = 9$ — **45**

8. $(16cm - 8cm) + 5cm =$ — **13cm**

9. $1070g = 1kg \square g$ — **70g**

10. $\frac{1}{3}$ of 12 + $\frac{1}{4}$ of 20 = — **9**

B | Answer

1. What is the next odd number greater than 69? — **71**

2. From 403 take 10. — **393**

3. Divide 35cm into 10 equal parts. What is the length of each part? — **$3\frac{1}{2}$ cm**

4. What number is added to 8 to make 278? — **270**

5. How many grams in 1kg 40g? — **1040g**

6. Write the missing sign +, −, × or ÷ in place of the ●.
13 − 5 = 8 ● 1. — **× or ÷**

7. How many centimetres when 37cm is added to $\frac{1}{2}$ m? — **87cm**

8. $50p + 34p + 20p = £\square$ — **£1.04**

9. In 56 there are 7 groups of 8. How many groups of 7 are there in 56? — **8**

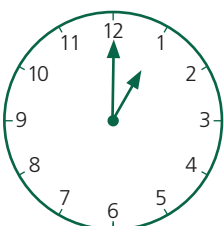10. What is the change from two 20ps after spending 29p? — **11p**

C | Answer

1. Write in words the time that is 35 minutes after ten to five. — **twenty-five past five**

2. Luke does his homework for $1\frac{1}{2}$ hours each day, Monday to Friday. How many hours does he spend on homework per week? — **$7\frac{1}{2}$ h**

3. Estimate which two of these lines, W, X, Y and Z, are of equal length. — **W   Y**

W ———————————
X ——————————
Y ——————————
Z ——————

4. 100g of pears cost 20p. Find the cost of $\frac{1}{2}$ kg. — **£1.00**

5. What is the total number of days in the first three months of a leap year? — **91**

6. What is the total cost of four pots of paint at 80p per pot? — **£3.20**

7. A rectangle has

rectangle

a. $\square$ pairs of equal opposite sides — **a 2**

b. $\square$ right angles. — **b 4**

8. By how much is 48p per metre cheaper than 57p per metre? — **9p**

9. A bag of pasta has a mass of 1kg 200g. Write the mass in grams. — **1200g**

10. Find the total value of these coins. — **52p**

20p 10p 5p 5p 5p 5p 1p 1p

A | Answer

1. $400 - 200 - 50 =$ — **150**
2. $(7 \times 10) + 6 =$ — **76**
3. One-fifth of thirty = — **6**
4. ■ $\div 8 = 12$ — **96**
5. $2 \times \frac{3}{4} =$ — **$1\frac{1}{2}$**
6. $750g = 500g +$ ■ g — **250g**
7. $30p + 60p = £1.00 -$ ■ p — **10p**
8. $45p =$ ■ 5ps — **9 5ps**
9. $\frac{1}{2}m + 18cm =$ ■ cm — **68cm**
10. $70 + 9 =$ ■ $+ 60$ — **19**

B | Answer

1. What number when multiplied by six gives sixty as the answer? — **10**
2. How much is added to three 2ps and one 5p to make 20p? — **9p**
3. To the product of 3 and 6 add 5. — **23**
4. What is the difference between the largest and smallest of these numbers?

   | $1\frac{1}{2}$ | $\frac{3}{4}$ | 4 | $3\frac{1}{4}$ |

   — **$3\frac{1}{4}$**
5. From £1.15 take 90p. — **25p**
6. What length is 5cm less than $\frac{1}{2}$m? — **45cm**
7. If 32p is divided equally between five children, how many pence are left? — **2p**
8. How many minutes from the time on the clock to ten to 11? — **45min**
9. Rearrange the numbers 4, 6, 9 to make the largest possible odd number. — **649**
10. $\frac{1}{2}$kg is ■ g less than 625g. — **125g**

C | Answer

1. How many 50p coins make the same value as £3.00? — **6 50ps**
2. Freya's hand span measures 12cm. Find the length of five spans. — **60cm**
3. A glass holds $\frac{1}{2}$l. How many times can it be filled from a bottle holding 8l? — **16**
4. In a school there are 523 pupils. If 40 pupils leave, how many remain? — **483**
5. Grace has four bank notes of the same value. She has £200. What is the value of each note? — **£50**
6. A chef requires 8kg of oranges. How much money will be saved by ordering the cheaper variety? — **32p**

   | Oranges 69p per kg | Oranges 73p per kg |
7. Tom leaves home at 8 o'clock a.m. and returns at 5 o'clock p.m. For how many hours is he away from home? — **9h**
8. Gulshan gives 68p to her sister. She has four 10ps and two 5ps left. How much had she at first? — **£1.18**
9. Which of these numbers is a multiple of both 3 and 6?

   | 15 21 30 39 |

   — **30**
10. The distance round the triangle is 25cm. Two sides each measure 9cm. What is the length of the third side? — **7cm**

SECTION 3 | Test 11

A

		Answer
1	50 tens + 8 units =	508
2	3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 =	24
3	$\frac{1}{4}$ of 1m = ▨cm	25cm
4	£1.00 – 45p = ▨p	55p
5	10 × 0 = 8 × ▨	0
6	489 + 20 =	509
7	$\frac{1}{2}$kg = 850g – ▨g	350g
8	1 = $\frac{1}{5}$ + ▨	$\frac{4}{5}$
9	How many days in August and September together?	61
10	85cm + ▨cm = 1m	15cm

B

		Answer
1	5 more than 17 minus 8	14
2	Add the even numbers between 9 and 15.	36
3	How many 10ps are worth £2.70?	27 10ps
4	8 × 5 = 5 × ▨	8
5	What is the time 3 hours before the time on the clock? Use a.m. or p.m. afternoon	10 a.m.
6	If 36 is divided by a number the answer is 9. What is the number?	4
7	Find the cost of five toothbrushes at 70p each.	£3.50
8	One-tenth of 460	46
9	From 2m take 75cm.	1m 25cm
10	Find the difference between five 5ps and seven 2ps.	11p

C

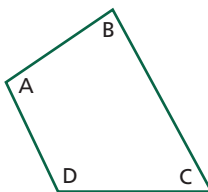|		Answer
1	How many stickers are there in 12 packets, each containing 20 stickers?	240
2	Nyasha has 18p, which is $\frac{3}{4}$ of her money. How much is half of her money?	12p
3	A length of rope measures 1m 24cm. It is cut into two equal pieces. Find the length of each piece.	62cm
4	By how many grams is parcel B heavier than parcel A?	80g
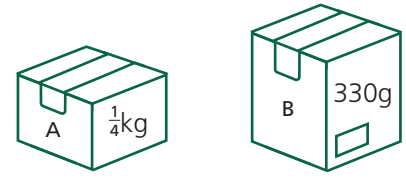
		Answer
5	George's birthday is in October. Mia is 5 months older than George. In which month is her birthday?	May
6	How much more than £1.00 did Leah spend after paying for $1\frac{1}{2}$kg of onions at 40p per $\frac{1}{2}$kg?	20p
7	A bath, when full, holds 60l. It is $\frac{1}{4}$ full. How many more litres are required to fill it?	45l
8	What number is the arrow pointing to?	300

|		Answer
9	Maisy changes eighteen 1ps and six 2ps for 5ps. How many 5ps did she receive?	6 5ps
10	Which of these angles, A, B, C or D, is less than a right angle?	C
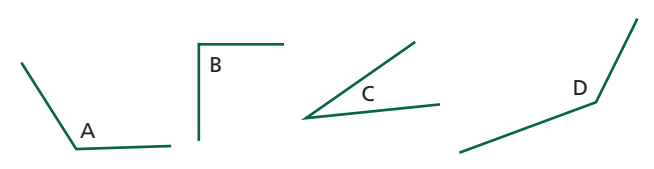
A | Answer

1. 614 = ▢ tens 4 units — **61** T
2. Half of (15 − 7) = — **4**
3. 130cm + 70cm = ▢ m — **2**m
4. $4\frac{3}{4}$ = ▢ quarters — **19**
5. (6p × 8) + 2p = — **50**p
6. $1 - \frac{7}{10}$ = ▢ — **$\frac{3}{10}$**
7. 24 ÷ 4 = 3 × ▢ — **2**
8. £1.00 − 16p = ▢ p — **84**p
9. 630 − 50 = — **580**
10. 1kg = ▢ g + 750g — **250**g

B | Answer

1. What is the value of the digit underlined in the number 8<u>6</u>3? — **60**
2. To 23p add 17p and 5p. — **45**p
3. Write the missing sign +, −, × or ÷ in place of the ●.

   6 tens ● 8 units = 52 — **−**
4. Decrease £1.35 by 29p. — **£1.06**
5. What is the missing number in this sequence?

   48, 42, 36, 30, ▢ — **24**
6. By how many centimetres is 2m more than $\frac{1}{2}$ m? — **150**cm
7. How many times can 5 be subtracted from 40? — **8**
8. Divide £0.48 by 8. Write the answer in pence. — **6**p
9. How many minutes in $2\frac{1}{2}$ hours? — **150**min
10. $3\overline{)\begin{array}{cc} 1 & 2 \\ ▢ & ▢ \end{array}}$ — **36**

C | Answer

1. A piece of tape measures 40cm. Find the length in metres of 10 pieces. — **4**m
2. Oscar practises his recorder for $\frac{3}{4}$ hour. He begins at quarter to twelve a.m. Write in words what time he finishes, using a.m. or p.m. — **twelve thirty p.m. (or half past twelve p.m.)**
3. How many yoghurts are bought for £6.00? — **24**

   > Yoghurts
   > 6 for £1.50
4. A side of a square measures $9\frac{1}{2}$ cm. Find the total length of its sides. — **38**cm
5. 1l of water has a mass of 1kg. What is the mass in grams of $\frac{1}{2}$ litre of water? — **500**g
6. £2.38 has the same value as £2, three 10ps and some 2ps. How many 2ps? — **4** 2ps
7. Ahmed measures his folder, which is 50cm long. How many folders measure 7m? — **14**
8. A sum of money is divided into two parts. One part is worth 7p and the other is worth three times as much. What is the sum of money? — **28**p
9. The mass of each of three parcels is 420g, $\frac{1}{4}$ kg and 390g. By how many grams is the heaviest parcel greater than the lightest? — **170**g
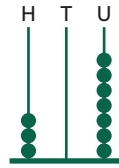10. Which of the angles A, B, C, D in this shape are greater than a right angle? — **A, D**

A Write in words the number shown on each abacus.
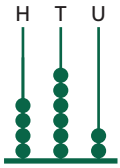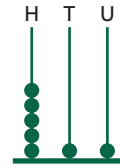

four hundred and sixty-two
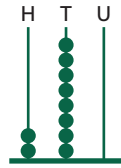
two hundred and eighty

three hundred and seven

five hundred and eleven

B Write these numbers in digits.

five hundred	500
one hundred and sixty-three	163
four hundred and thirteen	413
nine hundred and forty	940
three hundred and five	305
two hundred and eighty-nine	289
eight hundred and twenty-four	824
one hundred and two	102
seven hundred and seventy	770
one thousand	1000

C

$400 + 60 + 3 =$	463
$700 + 80 =$	780
$600 + 1 =$	601
$300 + 10 + 9 =$	319
$500 + 20 =$	520
$100 + 16 =$	116
379 = ▢ tens 9 units	37 T
404 = ▢ tens 4 units	40 T
230 = 2 hundreds ▢ units	30 U
865 = 8 hundreds ▢ units	65 U

D Addition

$7 + 2 =$	9	$16 + 3 =$	19
$5 + 5 =$	10	$2 + 18 =$	20
$3 + 6 =$	9	$5 + 14 =$	19
$0 + 9 =$	9	$11 + 8 =$	19
$2 + 8 =$	10	$7 + 13 =$	20
$8 + 3 =$	11	$15 + 7 =$	22
$5 + 9 =$	14	$13 + 8 =$	21
$7 + 4 =$	11	$5 + 16 =$	21
$2 + 9 =$	11	$18 + 4 =$	22
$4 + 8 =$	12	$6 + 19 =$	25
$6 + 5 =$	11	$17 + 7 =$	24
$8 + 8 =$	16	$6 + 14 =$	20
$7 + 6 =$	13	$19 + 4 =$	23
$9 + 9 =$	18	$5 + 18 =$	23
$6 + 8 =$	14	$7 + 19 =$	26
$6 + 6 =$	12	$15 + 5 =$	20
$8 + 5 =$	13	$29 + 8 =$	37
$3 + 9 =$	12	$7 + 26 =$	33
$8 + 9 =$	17	$8 + 27 =$	35
$9 + 6 =$	15	$4 + 29 =$	33

E Subtraction

$9 - 5 =$	4	$17 - 4 =$	13
$7 - 3 =$	4	$19 - 6 =$	13
$8 - 0 =$	8	$18 - 5 =$	13
$10 - 4 =$	6	$14 - 10 =$	4
$10 - 7 =$	3	$16 - 6 =$	10
$12 - 3 =$	9	$21 - 2 =$	19
$14 - 5 =$	9	$22 - 5 =$	17
$11 - 7 =$	4	$24 - 7 =$	17
$13 - 9 =$	4	$25 - 6 =$	19
$17 - 9 =$	8	$26 - 9 =$	17
$16 - 8 =$	8	$24 - 6 =$	18
$13 - 5 =$	8	$25 - 9 =$	16
$14 - 9 =$	5	$22 - 7 =$	15
$13 - 6 =$	7	$21 - 6 =$	15
$14 - 8 =$	6	$25 - 7 =$	18
$17 - 8 =$	9	$21 - 8 =$	13
$18 - 9 =$	9	$32 - 9 =$	23
$15 - 8 =$	7	$31 - 4 =$	27
$16 - 7 =$	9	$34 - 5 =$	29
$13 - 8 =$	5	$33 - 7 =$	26

A Write the missing number in each of these sequences.

270, 370, 470, 570, ▮ _____ 670

403, 303, 203, 103, ▮ _____ 3

360, 370, 380, 390, ▮ _____ 400

135, 125, 115, 105, ▮ _____ 95

How many times larger is

100 than 10 _____ 10

1000 than 100 _____ 10

300 than 3 _____ 100

460 than 46? _____ 10

Write the value of the digits underlined.

7̲06 _____ 700

85̲0 _____ 50

6̲03 _____ 600

B Addition

$20 + 50 =$ _____ 70

$10 + 90 =$ _____ 100

$39 + 40 =$ _____ 79

$70 + 18 =$ _____ 88

$95 + 6 =$ _____ 101

$75 + 30 =$ _____ 105

$92 + 9 =$ _____ 101

$150 + 50 =$ _____ 200

$247 + 100 =$ _____ 347

$180 + 20 =$ _____ 200

$396 + 10 =$ _____ 406

$199 + 1 =$ _____ 200

$298 + 5 =$ _____ 303

$106 + 7 =$ _____ 113

$509 + 4 =$ _____ 513

C Subtraction

$60 - 40 =$ _____ 20

$80 - 50 =$ _____ 30

$47 - 10 =$ _____ 37

$99 - 30 =$ _____ 69

$87 - 17 =$ _____ 70

$32 - 12 =$ _____ 20

$74 - 4 =$ _____ 70

$112 - 10 =$ _____ 102

$208 - 100 =$ _____ 108

$460 - 60 =$ _____ 400

$103 - 6 =$ _____ 97

$300 - 7 =$ _____ 293

$201 - 10 =$ _____ 191

$500 - 40 =$ _____ 460

$310 - 5 =$ _____ 305

D Multiplication

$2 \times 6 =$ _____ 12

$7 \times 3 =$ _____ 21

$5 \times 4 =$ _____ 20

$8 \times 5 =$ _____ 40

$4 \times 6 =$ _____ 24

$3 \times 10 =$ _____ 30

$0 \times 3 =$ _____ 0

$1 \times 6 =$ _____ 6

$2 \times 5 =$ _____ 10

$10 \times 6 =$ _____ 60

$7 \times 5 =$ _____ 35

$4 \times 8 =$ _____ 32

$6 \times 8 =$ _____ 48

$9 \times 2 =$ _____ 18

$4 \times 9 =$ _____ 36

$(1 \times 5) + 3 =$ _____ 8

$(3 \times 4) + 2 =$ _____ 14

$(5 \times 5) + 2 =$ _____ 27

$(7 \times 10) + 6 =$ _____ 76

$(9 \times 3) + 2 =$ _____ 29

$(8 \times 6) + 5 =$ _____ 53

$(7 \times 4) + 2 =$ _____ 30

$(9 \times 8) + 4 =$ _____ 76

$(0 \times 10) + 5 =$ _____ 5

$(1 \times 8) + 4 =$ _____ 12

$(2 \times 4) + 3 =$ _____ 11

$(6 \times 3) + 2 =$ _____ 20

$(8 \times 2) + 1 =$ _____ 17

$(5 \times 6) + 4 =$ _____ 34

$(8 \times 8) + 5 =$ _____ 69

E Division

$12 \div 2 =$ _____ 6

$15 \div 5 =$ _____ 3

$50 \div 10 =$ _____ 5

$18 \div 3 =$ _____ 6

$40 \div 8 =$ _____ 5

$24 \div 4 =$ _____ 6

$0 \div 3 =$ _____ 0

$35 \div 5 =$ _____ 7

$56 \div 8 =$ _____ 7

$16 \div 2 =$ _____ 8

$32 \div 4 =$ _____ 8

$70 \div 10 =$ _____ 7

$0 \div 5 =$ _____ 0

$21 \div 3 =$ _____ 7

$48 \div 8 =$ _____ 6

$22 \div 2 =$ _____ 11

$32 \div 4 =$ _____ 8

$100 \div 10 =$ _____ 10

$60 \div 5 =$ _____ 12

$33 \div 3 =$ _____ 11

$96 \div 8 =$ _____ 12

$120 \div 10 =$ _____ 12

$8 \div 8 =$ _____ 1

$0 \div 3 =$ _____ 0

$48 \div 4 =$ _____ 12

$88 \div 8 =$ _____ 11

$110 \div 10 =$ _____ 11

$44 \div 4 =$ _____ 11

$10 \div 10 =$ _____ 1

$36 \div 3 =$ _____ 12

F Find the total of 9, 7, 4 and 2. _____ 22

29 minus 10 = _____ 19

8 times 3 = _____ 24

Increase 15 by 9. _____ 24

Divide 36 into 4 equal parts. _____ 9

What is the difference between 8 and 23? _____ 15

Find the product of 9 and 10. _____ 90

What number is added to 16 to make 25? _____ 9

By how many is 18 less than 26? _____ 8

What number when multiplied by 8 gives 56 as the answer? _____ 7
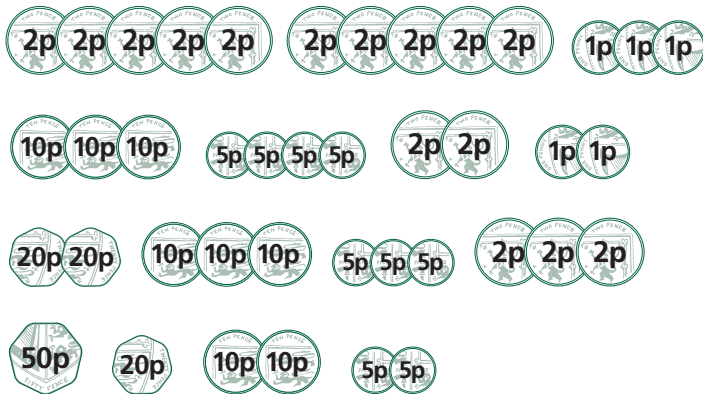
45

A

10p =
- 5ps _____ 2
- 2ps _____ 5

20p =
- 10ps _____ 2
- 5ps _____ 4
- 2ps _____ 10

50p =
- 10ps _____ 5
- 5ps _____ 10
- 2ps _____ 25

£1 =
- 50ps _____ 2
- 20ps _____ 5
- 10ps _____ 10
- 5ps _____ 20
- 2ps _____ 50
- 1ps _____ 100

B Find the total value of the coins in each row.

2p 2p 2p 2p 2p 2p 2p 2p 2p 2p 1p 1p 1p   _____ 23p

10p 10p 10p 5p 5p 5p 5p 2p 2p 1p 1p   _____ 56p

20p 20p 10p 10p 10p 5p 5p 5p 2p 2p 2p   _____ 91p

50p 20p 10p 10p 5p 5p   _____ £1.00

seven 10ps	=	70p
eight 5ps	=	40p
twelve 2ps	=	24p
two 10ps and three 2ps	=	26p
four 2ps and 5p	=	13p
four 10ps and six 5ps	=	70p
one 50p and two 20ps	=	90p

C

Find the change from a 10p after spending these amounts.		Find the change from a 20p after spending these amounts.		Find the change from a 50p after spending these amounts.		Find the change from £1 after spending these amounts.	
4p	6p	16p	4p	44p	6p	93p	7p
8p	2p	12p	8p	38p	12p	85p	15p
6p	4p	14p	6p	22p	28p	78p	22p
2p	8p	18p	2p	19p	31p	61p	39p
5p	5p	15p	5p	36p	14p	54p	46p
3p	7p	11p	9p	25p	25p	42p	58p
1p	9p	7p	13p	14p	36p	36p	64p
7p	3p	3p	17p	9p	41p	19p	81p

D Write the missing number of coins.

six 2ps and three 1ps	= [ ] 5ps	3
two 10ps and five 2ps	= [ ] 5ps	6
one 50p and three 10ps	= [ ] 20ps	4
one 50p and two 20ps	= [ ] 10ps	9

£1 is worth

four 20ps and [ ] 10ps	2
one 50p and [ ] 10ps	5
one 50p, one 20p and [ ] 10ps	3
one 50p, two 20ps and [ ] 5ps	2

A

Without using a ruler, estimate which of the lines V, W, X, Y, Z

is the longest	V
is the shortest	Z
are of equal length	W, Y
measures 9cm	Z
measures 14cm.	V

B Write the missing numbers.

10mm	= ▢ cm	1cm	
25 half-cm	= ▢ cm	$12\frac{1}{2}$cm	
1m	= ▢ cm	100cm	
$\frac{1}{2}$m	= ▢ cm	50cm	
$\frac{1}{4}$m	= ▢ cm	25cm	
$\frac{3}{4}$m	= ▢ cm	75cm	
1kg	= ▢ g	1000g	
$\frac{1}{2}$kg	= ▢ g	500g	
$\frac{1}{10}$kg	= ▢ g	100g	
1 litre	= ▢ ml	1000ml	

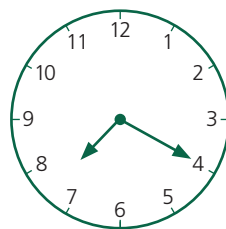|			
1m 35cm	= ▢ cm	135cm	
$\frac{1}{2}$m − 40cm	= ▢ cm	10cm	
2m + ▢ cm	= 265cm	65cm	
$\frac{1}{2}$m + 90cm	= ▢ cm	140cm	
54cm + ▢ cm	= 1m	46cm	
$\frac{1}{4}$m + 150cm	= ▢ m	1.75m	
1kg − 750g	= ▢ g	250g	
$\frac{1}{2}$kg + ▢ g	= 700g	200g	
2kg 400g	= ▢ g	2400g	
250g + 250g	= ▢ kg	$\frac{1}{2}$kg	

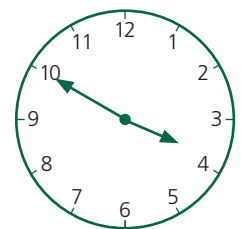**C** Write the time shown on each clock face in words using a.m. or p.m.
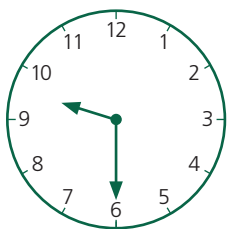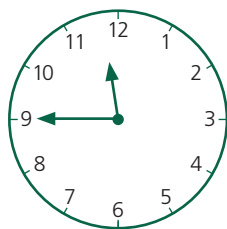
morning   afternoon   morning   afternoon

half past nine a.m.   quarter to twelve p.m.   twenty past seven a.m.   ten to four p.m.

D

1h	= ▢ min	60
$\frac{1}{2}$h	= ▢ min	30
$\frac{1}{4}$h	= ▢ min	15
$\frac{3}{4}$h	= ▢ min	45
1 week	= ▢ days	7
1 year	= ▢ months	12

How many days in

April	30
July	31
January	31
October	31
June?	30

How long is it from 10 o'clock a.m. to

midday	2h	0min
1 o'clock p.m.	3h	0min
half past four p.m.	6h	30min
ten to six p.m.	7h	50min
ten past ten p.m.?	12h	10min