


- A Answer**
- $243 \div 27 =$ 9
 - $24 - (15 - 3) =$ 12
 - $11.01 \times 10^2 =$ 1101
 - Express $1\frac{1}{2}$ as a percentage. 150%
 - What is 150% of 3? 4.5
 - Write one-ninth as a decimal to 2 decimal places. 0.11
 - $(1.25 + 5) + (1.25 \times 5) =$ 12.5
 - Approximate 69.802 to
 - 2 decimal places a 69.80
 - the nearest whole number. b 70
 - Estimate to the nearest 100.
 $6358 \div 7.8$ 800
 - If $a = 3$, evaluate $5a^2$. 45
 - $5q - 40 = 0$ so $q =$ 8
 - Express 28 as a product of prime numbers by filling in the blanks. $2 \times 2 \times 7 = 28$

- B Answer**
- If 10 bananas cost £2.40, then one will cost 24p
 - How long will it take to pay £27.50 at £2.50 per week? 11wk
 - 8 pints = 1 gallon. 40 pints = 5 gallons
 - $2\frac{3}{4}$ gallons = pints 22pt
 - Pythagoras died in 497 BCE aged 85. In what year was he born? 582 BCE
 - Find the cost of 2.25kg at 30p per $\frac{1}{2}$ kg. £1.35
 - A box is 5cm wide, 8cm long and 35cm high. Find its volume. 1400cm³
 - A square with an area of 25cm² is enlarged by the scale factor 2. What is the area of the new square? 100cm²
 -  A cardboard square has its outline marked on a sheet of paper. What is the smallest angle of rotation of the square about its centre O that will bring it back onto its outline again? 90°
 - Approximate 20ft to the nearest yard. 7yd


C Answer

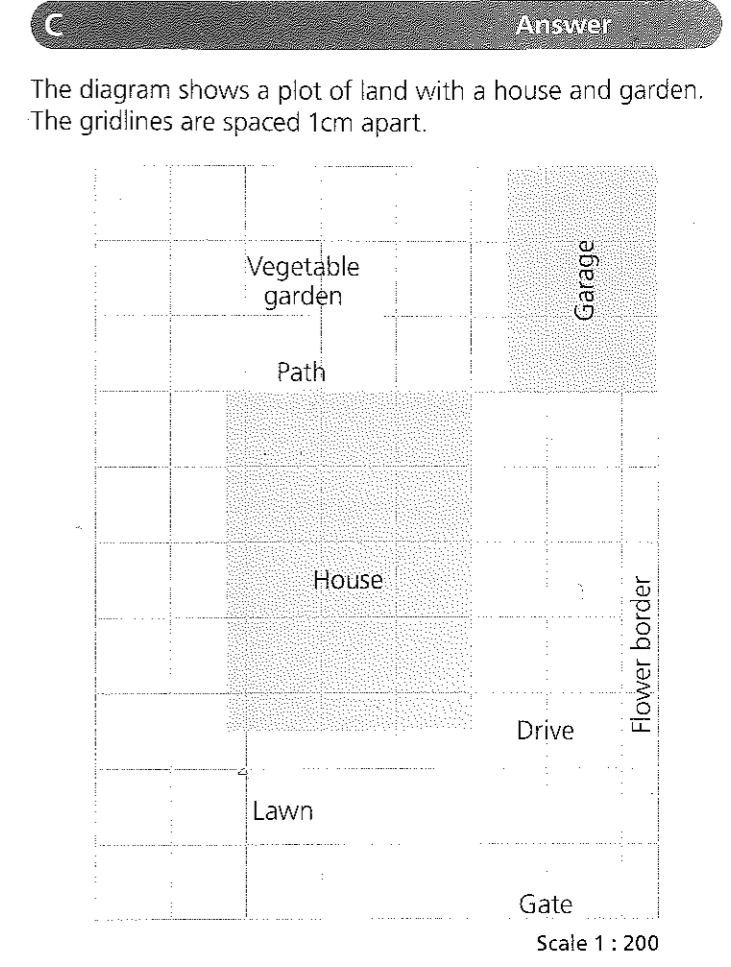
The table below is part of a spreadsheet that Patrick used to calculate the squares and cubes of the numbers 1 to 10. Some of the values in the table are missing.

	A	B	C
1	Number	Square	Cube
2	1	1	1
3	2	4	8
4	3	9	
5	4	16	64
6		25	
7	6	36	216
8	7	49	343
9	8		512
10	9	81	729
11	10	100	1000
12	Total		3025

- What is the content of cell B5? 16
- What is the content of cell C11? 1000
- What is the content of cell A1? Number
- What number is missing from cell A6? 5
- What number is missing from cell C6? 125
- What number is missing from cell C4? 27
- What number is missing from cell B9? 64
- The value of cell B7 was found by using the formula $A7 \times A7$.
What formula was used to calculate the value of cell B10? $A10 \times A10$
- The value of cell C7 can be found by using the formula $A7 \times A7 \times A7$.
What formula can be used to calculate the cube of 9? $A10 \times A10 \times A10$
- What would be the result of using the formula $A10 \times B10$? 729
- The value of cell C12 was found by using the formula $SUM(C2:C11)$.
What would be the result of using the formula $SUM(B2:B11)$? 385
- What number is missing from cell B12? 385

- A Answer**
- $1000 - 587 + 113 =$ ~~318~~ 526
 - $24 \div (15 - 3) =$ 2
 - Write in digits 10^6 . 1000000
 - Write in order of size, starting with the smallest:
2:3, 2.3, 23%, $\frac{3}{2}$. 23% 2:3 $\frac{3}{2}$ 2.3
 - Divide 65 in the ratio 2:3. 26 : 39
 - $0.6 \times 0.3 =$ 0.18
 - $\frac{10}{12} \div 5 =$ $\frac{1}{6}$
 - Approximate 0.3572 to
 - 2 decimal places a 0.36
 - the nearest hundredth. b 0.36
 - Estimate $\frac{5964}{14.5 \times 4.1}$ to the nearest 100. 100
 - If $x = 3$, $y = 4$, evaluate $2x + y^2$. 22
 - $4a - 20 = 2a$ so $a =$ 10
 - $6^3 =$ 216

- B Answer**
- What is the change from £1 if I buy three tulips at 18p each? 46p
 - How many Euros for £50 at 1.2 Euros to £1? €60
 - 3ft 6in = 42in
 - $15\text{yd} - 12\text{ft} =$ 33ft = 11yd
 - How many days inclusive from 14 March to 3 May? 51d
 - 0.01 of 3.5l = ml 35ml
 - A wooden block measures 3cm x 4cm x 5cm. Find its total surface area. 94cm²
 - A right-angled triangle with sides of 3cm, 4cm and 5cm is enlarged by the scale factor 3. What is the length of the longest side of the new triangle? 15cm
 -  A cardboard square has its outline marked on a sheet of paper. How many times can the square be rotated 90° about its centre to bring it back onto its outline again? 4
 - Approximate 2444kg to the nearest tonne. 2t



- What length in metres is represented by 1cm on the plan? 2m
- What size is the drive? 4m by 14m
- What is the area of the drive? 56m²
- Which has the bigger area, the drive or the vegetable garden, and by how much? drive by 1m²
- What length of fencing is needed to go all round the plot, not including the gate? 66m
- What is the total area of the plot? 300m²
- What is the area of the garage? 24m²
- What percentage of the plot is occupied by the garage? 8%
- What is the area of the house? 58.5m²
- What percentage of the plot is occupied by the house? 19.5%
- What is the area of the lawn? 81.5m²
- How many stone slabs 500mm square will be needed to pave the path? 44