April

55mm

70mm

January

September

June, July

24°C

25°C

335mm

185mm

What is the remainder when

3 Write in digits eighty-nine hundred.

323 is divided by 7?

Express $\frac{1}{8}$ as a decimal.

Round 5.0827496 to the

Write 1286 correct to two

10 If a = 4, b = 5 and c = 6, find the value of $a^2 + b^2 + c^2$

12 Write the next two terms of

nearest thousandth.

significant figures.

 $2 (930 + 470) \div 14 =$

 $3\frac{3}{4} \times 40 =$

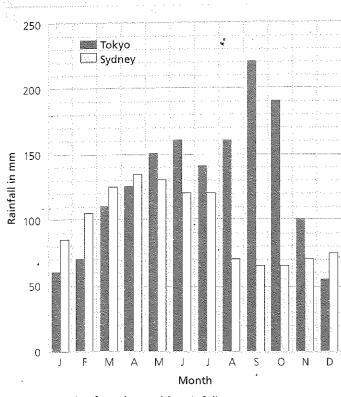
6 2.8 - 0.07 =

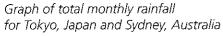
11 5u + 11 = 46

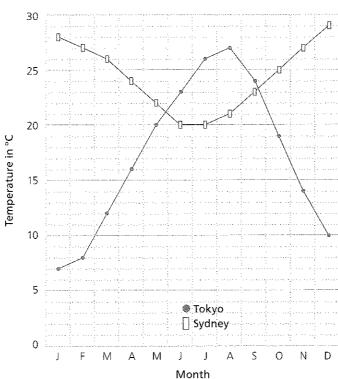
the sequence.

100, 10, 1, 0.1, ,

 $-7 \quad 0.5 \times (2.5 + 7.2) =$







Graph of maximum monthly temperature for Tokyo, Japan and Sydney, Australia

Look carefully at the graphs above and answer the following questions.

28 In which month is the rainfall in Tokyo and Sydney most nearly the same?

26	Which is the wettest month in Sydney?	
	•	

April

27 Which month shows the greatest difference between the rainfall in Tokyo and the rainfall in Sydney?

September

29 How much rain falls in Tokyo during its driest month?

30 What is the range of rainfall in Sydney?

December 31 Which is the hottest month in Sydney?

32 Which is the coldest month in Tokyo?

33 Which month shows the greatest difference between the temperature in Tokyo and the temperature in Sydney? January

34 In which month is the maximum temperature in

Tokyo and Sydney most nearly the same?

35 What is the range of maximum temperature in Sydney?

36 What is the temperature in Tokyo during the wettest month?

37 Between which two months in Sydney is there no change in both rainfall and temperature?

38 What is the mean maximum temperature in Tokyo during its hottest four-month period?

39 What is the total rainfall in Sydney during its four hottest months?

40 What is the total rainfall in Tokyo during its three coldest months?

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Answer 1 | buy 16 slices of cheesecake at £2.75 each. How much change £6 from £50? 2 The price of a £9800 car rises £10388 by 6%. What is the new cost? 3in 3 2.54cm ≈ 1in. 75mm is approximately 16in 4 40cm is approximately in. How many days inclusive from 15.10.2017 to 05.02.2018? 114d 6 In metres, find the distance travelled in 2min at a rate of 16m/s. 1920m 7 Find the diameter of a circle whose circumference is 157mm. $\pi = 3.14$ 50mm 8 These are

Answer

100

8900

0.125

150

2.73 4.85

5.083

1300

77

0.01 0.001

xcm of the other). 0.6cm Find x. What is the number of axes of symmetry of this shape?

similar shapes

enlargement

£30

(one is an

10 Find the cost of six books at £4.95 each to the nearest £1.

1.6cm

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1 Write down the corner coordinates of triangle A.

(~ 0, 0)(3, 2)(1, 4)

2 Triangle A is translated to position B. Write down the corner coordinates of the triangle when in position B.

(5, 0)(8, 2)(6, 4)

3 What happens to the x-values of the coordinates of the triangle when it is translated to position B?

increased by 5

4 What happens to the y-values of the coordinates of the triangle when it is translated to position B?

stay the same

5 Use your answers to questions 3 and 4 to complete the: statement: the mapping $(x, y) \rightarrow (x + 5, y)$ translates triangle A to position B.

6 Write down the corner coordinates of the triangle when translated to position C.

7 Use your answer to question 6 to complete the statement: the mapping $(x, y) \rightarrow (x, y + 7)$ translates triangle A to position C.

8 Write down the corner coordinates of the triangle when translated to position D.

(3, 4)(5, 6)(4, 8)

9 Complete the statement: The mapping $(x, y) \rightarrow$ (x + 3, y + 4) translates triangle A to position D.

10 Complete the statement: The mapping $(x, y) \rightarrow$ (x + 9, y + 3) translates triangle A to position E.

11 Triangle A is translated by the mapping of (x, y)(x + 7, y + 8). Write down the values of the corner coordinates when the triangle is translated by this mapping to its new position.

(7, 8)(10, 10)(8, 12)

12 On the grid above sketch in the new position of the triangle.