Corbettmaths

100 Days to Go
GCSE Foundation
Revision Questions

100 Days to Go

Answers

See 14 Days to Go

1. From the list of numbers

4 7 9 10 11 15 31

97 Days to Go

(a) Write down a factor of 21

7

.....

(1)

(b) Write down a factor of 62

2 x 31

31

.....

(1)

(c) Write down a factor of 45

3 x 15

or 9 x 5

15 or 9

.....

(1)

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2. Don says

"the difference between two consecutive cube numbers is always odd."

Is Don correct?
You must show your workings.

Yes

96 Days to Go

8 - 1 = 7
27 - 8 = 19
64 - 27 = 37
125 - 64 = 61

1 x 1 x 1 = 1
2 x 2 x 2 = 8
3 x 3 x 3 = 27
4 x 4 x 4 = 64
5 x 5 x 5 = 125

(2)

3. (a) Write 60 as a product of its prime factors.

53 Days to Go

$2 \times 2 \times 3 \times 5$

$2^2 \times 3 \times 5$

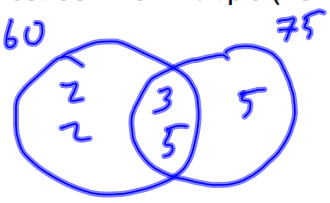
.....

(2)

(b) Find the Lowest Common Multiple (LCM) of 60 and 75.

$60 = 2 \times 2 \times 3 \times 5$

$75 = 3 \times 5 \times 5$



$LCM = 2 \times 2 \times 3 \times 5 \times 5$

$= 300$

$75 = 3 \times 5 \times 5$

300

.....

(2)

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4. Penny gets £8 pocket money.
She is given an increase of £3.

49 Days to Go

(a) Write down £3 as a fraction of £8

$\frac{3}{8}$

.....

(1)

(b) Write your answer as a percentage

$3 \div 8 = 0.375$

37.5%

.....

(1)

5. Jo has a recipe for Bolognese Sauce,

Bolognese Sauce

÷5 → ×4

Minced Beef	500 g	100g	400g
Chopped Tomatoes	750 g	150g	600g
Mushrooms	40 g	8g	32g
Chicken Stock	150 ml	30ml	120ml

She only has 400g of minced beef.

43 Days to Go

How much of the other ingredients should she use?

Chopped Tomatoes: 600 .....g

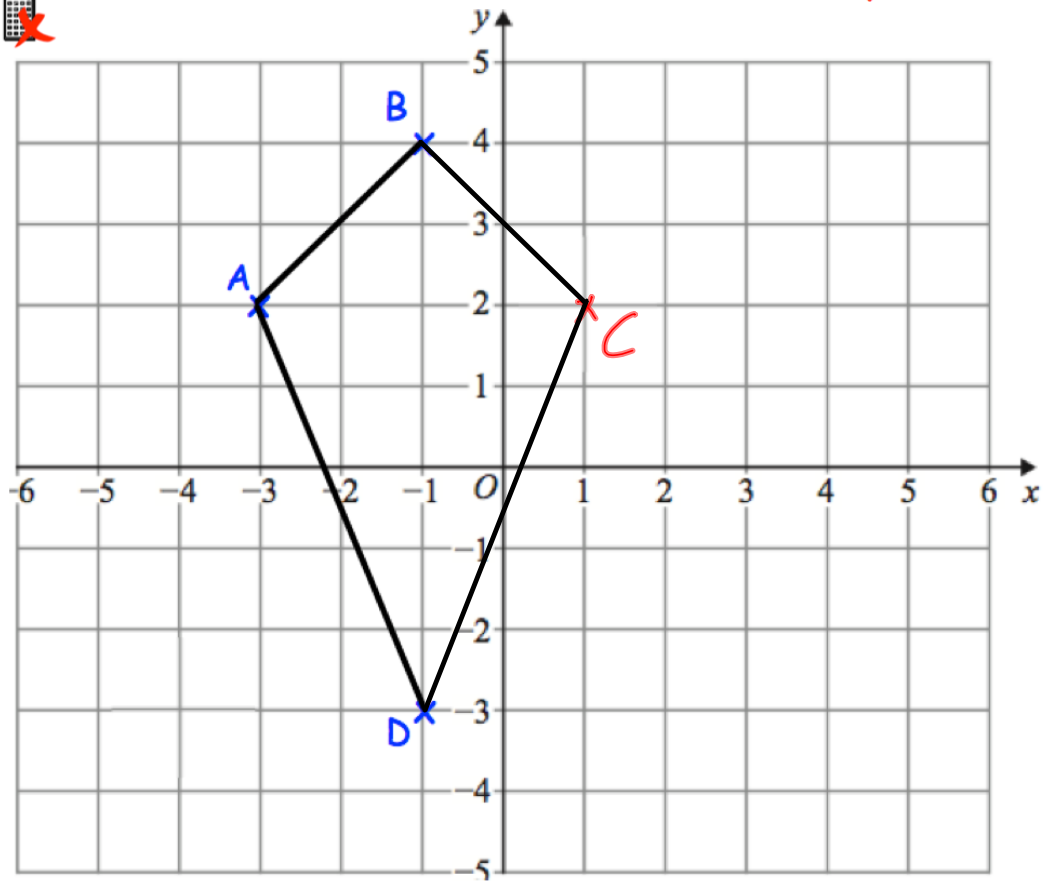
Mushrooms: 32 .....g

Chicken Stock: 120 .....~~g~~ ml

(3)

6. The points A (-3, 2), B (-1, 4) and D (-1, -3).

70 Days to Go



ABCD is a kite.
Complete the kite and write down the coordinates of C.

(1 , 2)

(2)

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7. An airplane has economy and first class seating.
There are *s* seats in each row in economy.
There are *t* seats in each row in first class.

69 Days to Go

There are 9 rows in first class and 24 rows in economy.

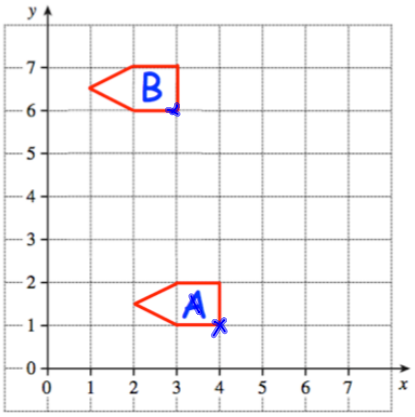
Write down an expression, in terms of *s* and *t*, for the number of seats on the airplane.

$9t + 24s$

$9t + 24s$

(2)

8.



27 Days to Go

Write down the translation vector that would take A to B.

$\begin{pmatrix} -1 \\ 5 \end{pmatrix}$

(1)

---

9. Hannah is recording the number of letters in each word in an article.

These are the first ten lengths.

3 + 4 + 5 + 6 + 2 + 4 + 3 + 7 + 3 + 6 + 4 = 47

47 ÷ 11 = 4.2727...

86 Days to Go

(a) Work out the median.

2 2 3 3 3 4 4 5 6 6 7

2 2 3 3 3 4 4 4 5 6 6 7

4

(2)

(b) Calculate the mean.

3 + 4 + 5 + 6 + 2 + 4 + 3 + 7 + 3 + 6 = 43

43 ÷ 10 = 4.3

4.3

(2)

The 11th word has 4 letters.

(c) Tick the box which describes what affect this will have on the mean.

The mean will decrease	The mean will remain the same	The mean will increase
☑	☐	☐

(1)

(d) Tick the box which describes what affect this will have on the median.

The median will decrease	The median will remain the same	The median will increase
☐	☑	☐

(1)

---

10. (a) Write 5725 to the nearest 100.

99 Days to Go

5700 5750 5800

5700

(1)

(b) Write 83.07718 correct to two decimal places.

83.08

(1)

(c) Write 6.35 correct to 1 decimal place.

6.4

(1)

(d) Write 129.34952 correct to 1 decimal place.

129.3

(1)

B
O
DM
AS

98 Days to Go

11. Work out

(a) $(2 + 5)^2$

$7^2 = 49$

49

.....

(1)

(b) $5 + 3 \times 6$

$5 + 18 = 23$

23

.....

(1)

---

12. Work out, as a simplified fraction.

93 Days to Go

$$\frac{3}{4} + \frac{2}{9}$$

$\frac{27}{36} + \frac{8}{36} = \frac{35}{36}$

$\frac{35}{36}$

.....

(2)

---

13. Work out

92 Days to Go

$$1\frac{1}{3} \times 2\frac{2}{5}$$

Give your answer as a mixed number.

$\frac{4}{3} \times \frac{12}{5} = \frac{48}{15}$

$= 3\frac{3}{15}$

$= 3\frac{1}{5}$

$3\frac{1}{5}$

.....

(3)

14. At Frome International train station, 35% of trains were late in a week.
In that week there were 440 trains.

Calculate how many trains were on time.

$440 \div 100 = 4.4$

50 Days to Go

$4.4 \times 35 = 154$ late trains

$440 - 154 = 286$

286

.....

(3)

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15. At a rugby match, the ratio of children to adults is 2 : 3
There are 80 children in the crowd.
Each adult ticket costs £8
Each child ticket costs a quarter of the adult ticket. $8 \div 4 = £2$

Work out the total money made from ticket sales.

$80 \div 2 = 40$

48 Days to Go

$40 \times 3 = 120$ adults

80 children

$120 \times 8 = £960$

$80 \times 2 = £160$

$960 + 160 = £1120$

£.....

(4)

16. $v = u + at$

(a) Work out v when u = 23, a = 4 and t = 3

61 Days to Go

$v = 23 + (4 \times 3)$

$= 23 + 12$

$v = 35$

35

.....

(2)

(b) Work out u when v = 30, a = 2 and t = 8

$30 = u + 16$

$-16 \qquad -16$

$14 = u$

14

.....

(2)

---

17. Tony makes a fair six-sided spinner.
The spinner has the numbers 7, 8 and 9 on it.

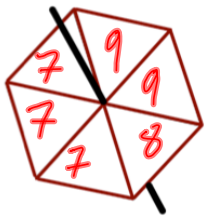
The probability the spinner will land on 7 is greater than the probability that the spinner will land on 8.

The probability that the spinner will land on 9 is ⅓

83 Days to Go

$6 \div 3 = 2$

Write the numbers on the spinner.



(2)

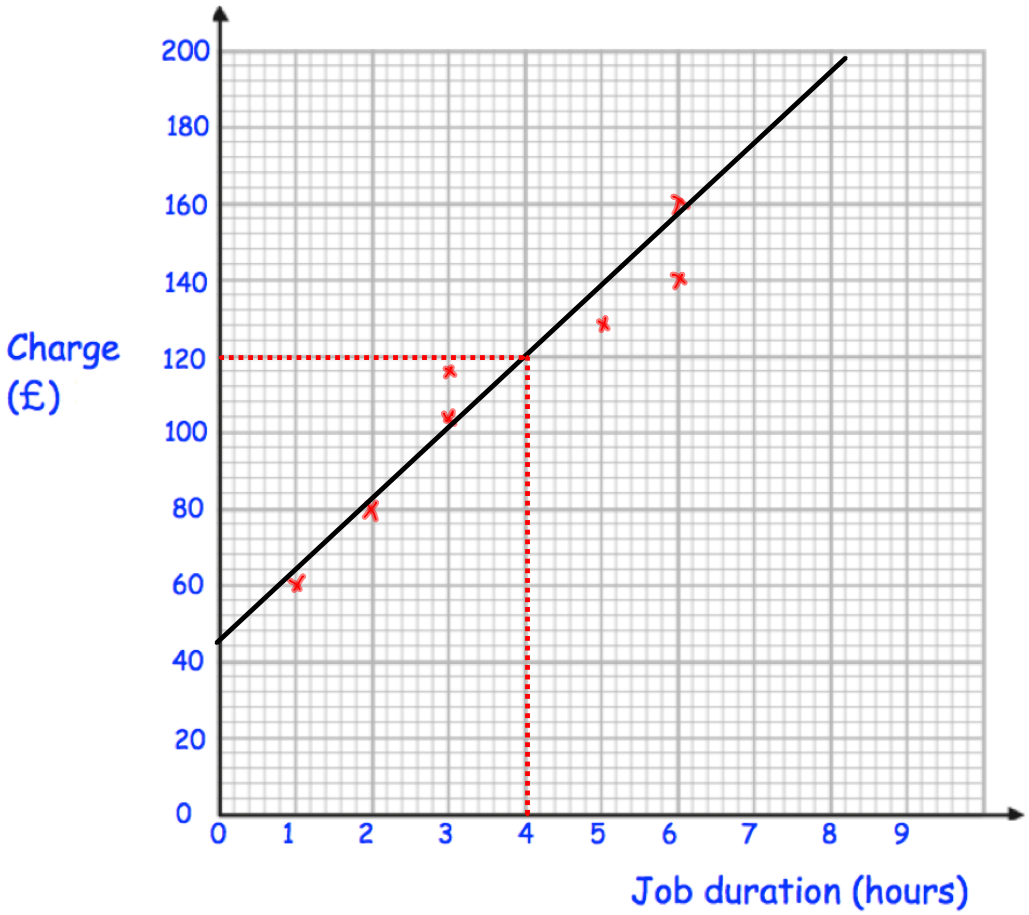
18. The table shows the charge (£) by plumbers for jobs of different duration (hours).

Job duration (hours)	1	2	3	3	5	6	6
Charge (£)	60	80	104	116	128	140	160

(a) Plot the data on the scatter graph below.

87 Days to Go

(2)



(b) Describe the correlation.

It is a positive correlation - as the duration increases, so does the cost.

(1)

(c) Draw a line of best fit on the scatter graph.

(1)

(d) Use your line of best fit to estimate the charge for a 4 hour job.

£ 120

(1)

(e) Explain why it may **not** be appropriate to use your line of best fit to estimate the charge for a job lasting 12 hours.

It is beyond the range of the given data.

(1)

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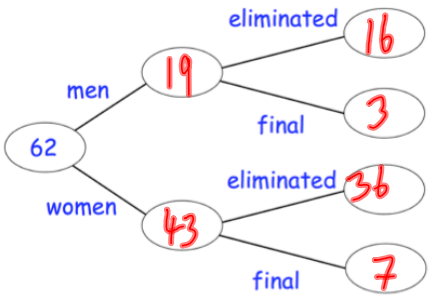
19. 62 people took part in a talent show
43 of the people were women and the rest were men.
10 people made it through to the final and the rest were eliminated.
3 men made it through to the final

90 Days to Go

62 - 43 = 19



43 - 7 = 36

a) Complete the frequency tree

(2)

b) What fraction of the men made it through to the final?

3/19

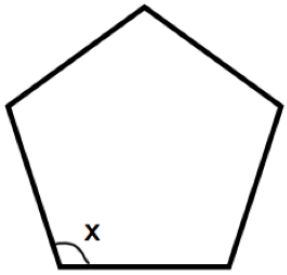
(2)

20. Shown below is a regular pentagon.

$(5-2) \times 180$

$3 \times 180 = 540°$

$540° \div 5 = 108°$

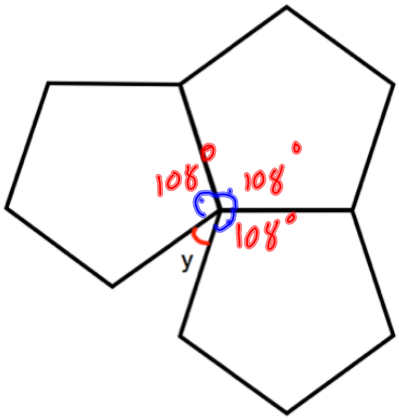


78 Days to Go

(a) Find the size of each interior angle.

x = 108 °

(2)



Three identical regular pentagons are joined as shown above.

(b) Work out the size of angle y.

$3 \times 108 = 324$

$360 - 324 = 36°$

y = 36 °

(2)

21. A car travels 240 kilometres in 3 hours 45 minutes

Calculate the average speed, in km/h, of the car.

31 Days to Go

$S = \frac{d}{t}$

$= \frac{240}{3.75}$

64 .....km/h

(3)

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22. The time for ten students to complete a race is below.

Time (t seconds)		Frequency
20 < t ≤ 40	30 ×	3
40 < t ≤ 60	50 ×	5
60 < t ≤ 80	70 ×	2
		10

fx
90
250
140
480

Work out an estimate for the mean time taken.

480 ÷ 10 = 48 seconds

84 Days to Go

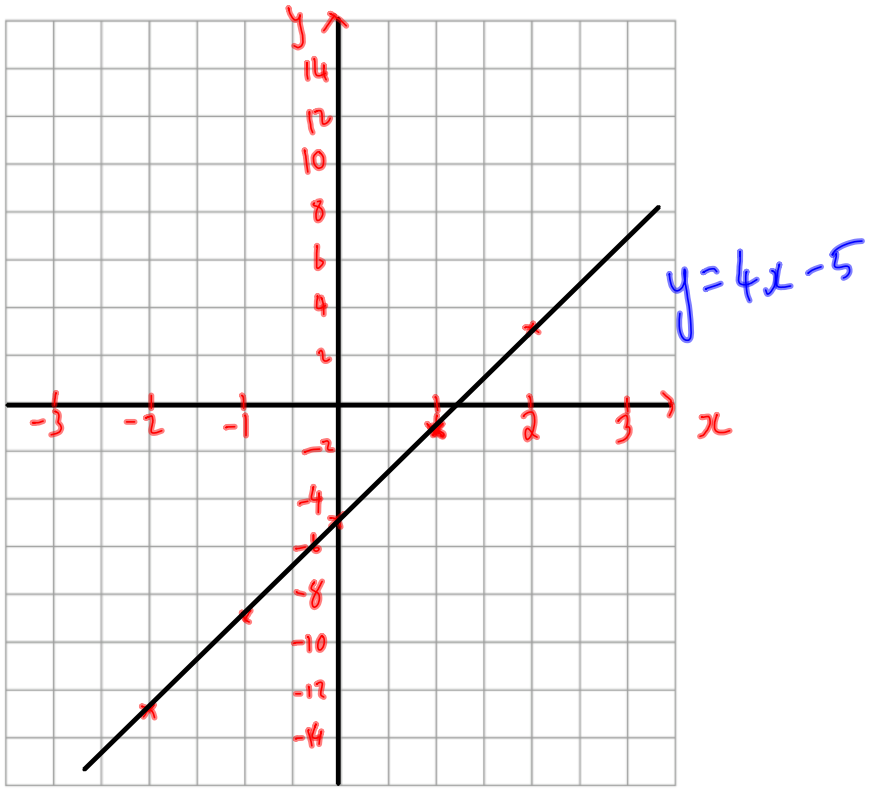
.....seconds

(4)

23. On the grid, draw y = 4x – 5 for values of x from –2 to 2.

x	-2	-1	0	1	2
y	-13	-9	-5	-1	3

60 Days to Go



(4)

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24. A fish tank sprung a leak and loses 20% of its water.
There is now 240 litres of water in the fish tank.

How much water was in the fish tank before the leak?

80% → 240 Litres ÷80
1% → 3 Litres ×100
100% → 300 Litres

44 Days to Go

300

(3)

25. Peter's weight decreases from 80kg to 64kg.

Calculate the percentage decrease in Peter's weight.

47 Days to Go

Change / original $\times 100$ $\quad \frac{16}{80} \times 100$

20

.....%

(2)

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26. Work out

4^{-2} $\quad \frac{1}{4^2}$

52 Days to Go

1

$\frac{1}{16}$

.....

(1)

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27. Expand and simplify $(w - 6)(w + 7)$

$w^2 + 7w - 6w - 42$

63 Days to Go

$w^2 + w - 42$

$w^2 + w - 42$

(2)

---

28. Solve $4y + 1 = 29 - 2y$

$+2y \quad +2y$

$6y + 1 = 29$

$-1 \quad -1$

$6y = 28$

$\div 6 \quad \div 6$

$y = \frac{28}{6}$

$y = \frac{28}{6}$

$y = \frac{14}{3}$

67 Days to Go

$4\frac{2}{3}$

y = $\frac{14}{3}$

(2)

29. Work out the *n*th term for this sequence

	12	22	32	42	52	...	...
10n	10	20	30	40	50		

11 Days to Go

$10n + 2$

(2)

---

30. Factorise fully

$9m^2 - 12mp$

$3m(3m - 4p)$

64 Days to Go

$3m(3m - 4p)$

(2)

+ X

---

31. Factorise $x^2 + 4x - 12$

$(x + 6)(x - 2)$

62 Days to Go

$(x+6)(x-2)$

(2)

---

32. Solve the inequality $4x + 6 \geq 8$

$-6 \quad -6$

$4x \geq 2$

$\div 4 \quad \div 4$

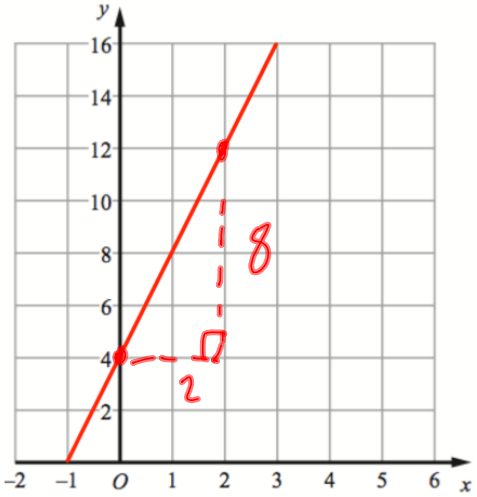
$x \geq 0.5$

12 Days to Go

$x \geq 0.5$

(2)

33. A straight line L is shown on the grid.



$m = \frac{\text{rise}}{\text{run}} = \frac{8}{2} = 4$

$y = mx + c$

$y = 4x + 4$

Work out the equation of line L

59 Days to Go

.....

(3)

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34. Sebastian leaves £3000 in the bank for two years.
It earns compound interest of 2% per year.

Calculate the total amount Sebastian has in the bank at the end of the two years.

initial × multiplier$^{\text{time}}$

45 Days to Go

$3000 \times 1.02^2 = £3121.20$

£.....

(2)

35. Write the following numbers in standard form.

51 Days to Go

(a) 5600

A × 10 2

5.6 × 10 3

.....

(1)

(b) 41200000

4.12 × 10 7

.....

(1)

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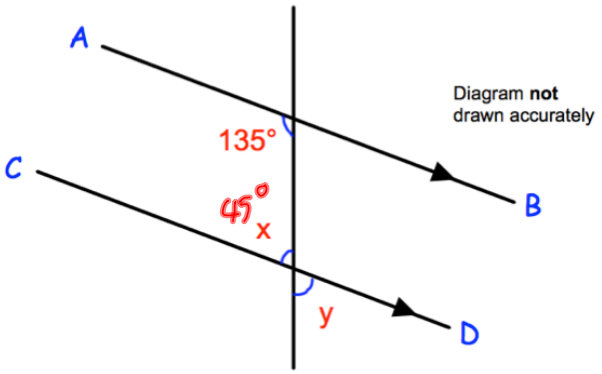
36. In the diagram AB is parallel to CD.



7
180
-135
45

79 Days to Go

(a) Work out the size of the angle marked x.

45°

.....°

Give a reason for your answer.

They are co-interior angles (135° & x) so they add to 180°.

.....

(2)

(b) Write down the value of y.

45

.....°

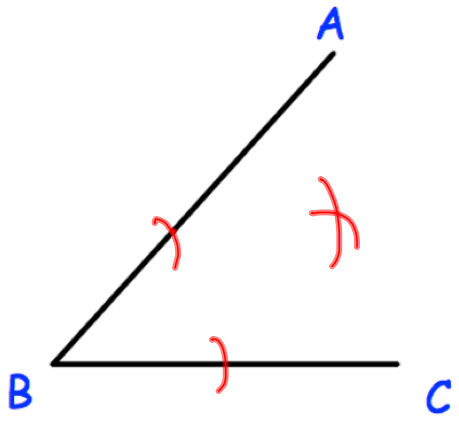
Give a reason for your answer.

It is vertically opposite to x, so they are equal.

.....

(2)

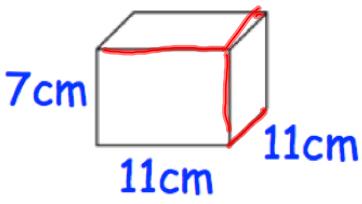
37. Using ruler and compasses, construct the bisector of angle ABC.



76 Days to Go

(2)

38.



Work out the surface area of this cuboid.
State the units of your answer.

front $11 \times 7 = 77\text{cm}^2$
back 77cm^2
top $11 \times 11 = 121\text{cm}^2$
bottom $= 121\text{cm}^2$
right $7 \times 11 = 77\text{cm}^2$
left 77cm^2

21 Days to Go

$77 + 77 + 121 + 121 + 77 + 77$
$= 550\text{cm}^2$

.....

(3)

39. What is the volume of a piece of metal that has a mass of 300g and density of 6g/cm³?

$\frac{300}{6} = 50 cm^3$

30 Days to Go

$V = \frac{m}{d}$

$V = \frac{300}{6}$

$V = 50 cm^3$

50 .....cm³

(2)

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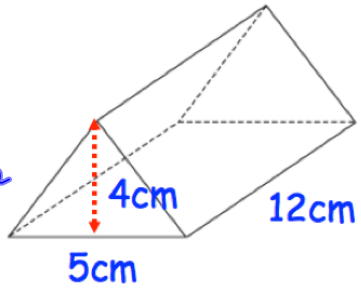
40. Shown below is a triangular prism.

$\frac{1}{2}(5 \times 4)$

$\frac{1}{2}(20) = 10 cm^2$



Find the volume of the triangular prism.

22 Days to Go

$10 \times 12 = 120$

120 .....cm³

(3)

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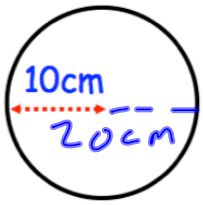
41. Shown below is a circle with radius 10cm.

$C = \pi \times 20$

$= 20\pi$



28 Days to Go

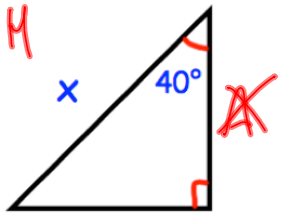
$C = \pi \times d$

Work out the circumference of the circle.
Give your answer in terms of π.

20π .....cm

(2)

42. The diagram shows a right-angled triangle.



23 Days to Go

$\sin\theta = \frac{O}{H}$

$\sin(40) = \frac{8}{x}$

$\times x \quad \times x$

$\sin(40) \times x = 8$

$\div \sin(40) \quad \div \sin(40)$

$x = \frac{8}{\sin 40}$

12.445790 61

Calculate the length of x.

12.446 .....cm

(3)

---

43. Given

$a = \begin{pmatrix} 6 \\ -4 \end{pmatrix}$ $b = \begin{pmatrix} -2 \\ 1 \end{pmatrix}$

19 Days to Go

Work out **2a + b**

$2a = \begin{pmatrix} 12 \\ -8 \end{pmatrix}$ $\begin{pmatrix} 12 \\ -8 \end{pmatrix} + \begin{pmatrix} -2 \\ 1 \end{pmatrix} = \begin{pmatrix} 10 \\ -7 \end{pmatrix}$

.....

(3)

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44. Nigel measures the time, t seconds, to complete a race as 14.8 seconds correct to the nearest tenth of a second.

Write down the error interval for t.

$14.75 \leq t < 14.85$

.....

(2)

40 Days to Go

45. Calculate the value of

$$\sqrt[3]{(25.4 - 5.9)^2}$$

39 Days to Go

(a) Write down your full calculator display.

7.244744507

.....

(1)

(b) Give your answer to three significant figures.

7.24

.....

(1)

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46. A circle has an area of 64 cm²

Work out the radius of the circle.

24 Days to Go

$A = \pi r^2$

$64 = \pi r^2$

$\div \pi \quad \div \pi$

$20.3718327^2 = r^2$

$\sqrt{20.3718...}$

4.5135

.....cm

to 4 dp

(2)

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47. Write down the exact value of Cos 60°

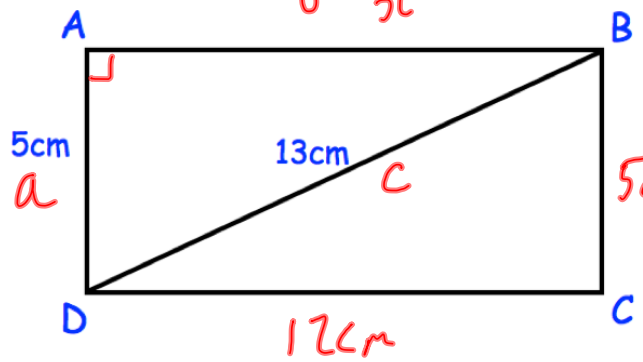
18 Days to Go

$\frac{1}{2}$

.....

(1)

48. Below is rectangle, ABCD



$a^2 + b^2 = c^2$

$5^2 + x^2 = 13^2$

$25 + x^2 = 169$

$-25 \quad -25$

$x^2 = 144$

$x = \sqrt{144}$

$x = 12$ cm

AD = 5cm
BD = 13cm

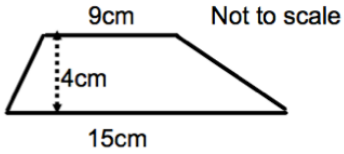
Calculate the perimeter of rectangle ABCD

29 Days to Go

$12 + 5 + 12 + 5 = 34$

34 .....cm
(3)

49.



73 Days to Go

Calculate the area of the trapezium.

$\frac{1}{2}(a+b)h$

$\frac{1}{2}(9+15) \times 4$

$\frac{1}{2}(24) \times 4$

$12 \times 4 = 48$

48 .....cm²
(2)

50. Candles normally cost £6 each.

Two websites have special offers

Corbettmaths Candles	Candles'R'us
Buy 3 get 1 free	20% off

Laura wants to buy 30 candles.
Which website should Laura use?

3	1	4
6	2	8
9	3	12
12	4	16
15	5	20
18	6	24
21	7	28
24	8	32

$30 \times 6 = £180$

$10\% \rightarrow £18$

$20\% \rightarrow £36$

$180 - 36 = £144$

41 Days to Go

$23 \times £6$

$£138$

$23 \times 6 = 138$

Corbettmaths Candles

(4)

51. (a) Simplify

$m^5 \times m^3$

m^8

(1)

(b) Simplify

$m^8 \div m^2$

m^6

(1)

(c) Simplify

$(m^3)^2$

68 Days to Go

m^6

(1)

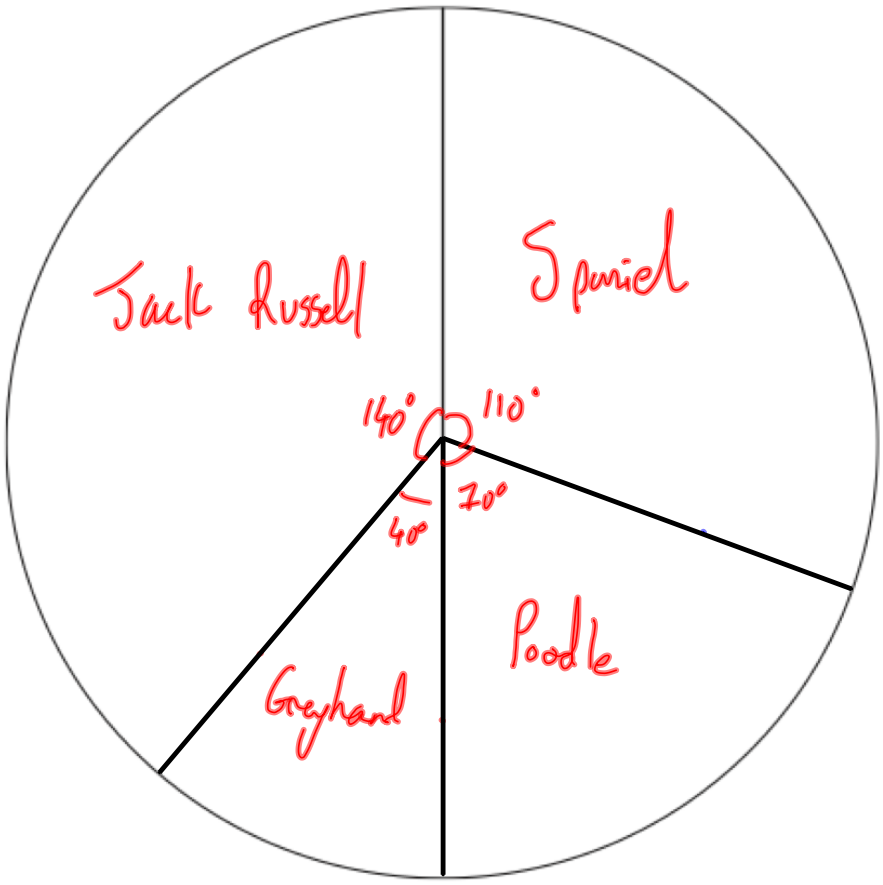
52. The table gives information about the dogs in a village

$360^\circ \div 36 = 10^\circ$

Breed	Frequency	Angle
Spaniel	11 × 10	110°
Poodle	7 × 10	70°
Greyhound	4 × 10	40°
Jack Russell	14 × 10	140°
	+ 36	

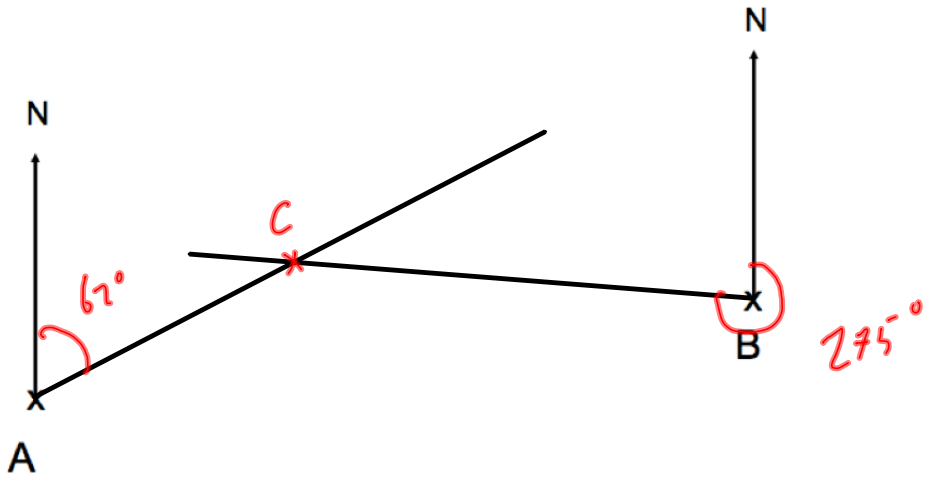
88 Days to Go

Draw an accurate pie chart to show this information.



(4)

53. The diagram shows the position of two people, A and B, who are on their Duke of Edinburgh expedition.



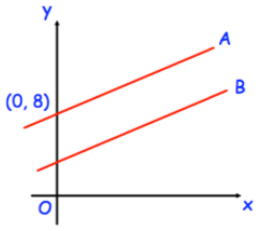
The bearing of person C from person A is 062°
The bearing of person C from person B is 275°

77 Days to Go

In the space above, mark the position of person C with a cross (x). Label it C.

(3)

54.



$y = mx + c$

16 Days to Go

The lines A and B are parallel.
The line A passes through the point (0, 8)
The line B has equation $y = 3x + 1$

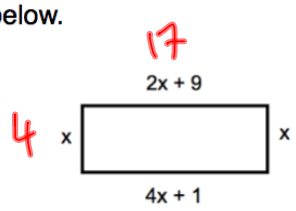
Write down the equation of line A

$y = 3x + 8$

.....

(2)

55. A rectangle is shown below.



13 Days to Go

(a) Explain why $4x + 1 = 2x + 9$

The opposite sides of a rectangle have the same length.

(1)

(b) Find the size of x.

$4x+1 = 2x+9$

$-2x \quad -2x$

$2x+1 = 9$

$-1 \quad -1$

$2x = 8$

$x = 4$

x = 4 cm

(2)

(c) Work out the area of the rectangle.

$4 \times 17 = 64$

64 cm²

(2)

---

56. Solve the simultaneous equations

$3x + 5y = 1 \quad \times 3$

$2x - 3y = 7 \quad \times 5$

Do not use trial and improvement

$6 + 5y = 1$

$-6 \quad -6$

$5y = -5$

$\div 5 \quad \div 5$

$y = -1$

57 Days to Go

$9x + 15y = 3$

Add $10x - 15y = 35$

$19x = 38$

$\div 19 \quad \div 19$

$x = 2$

$4 - (-3) = 7$ ✓

x = 2 y = −1

(4)

$(-2)^2 + (-2)$ $0^2 + 0 = 0$ $3^2 + 3$ $9 + 3 = 12$

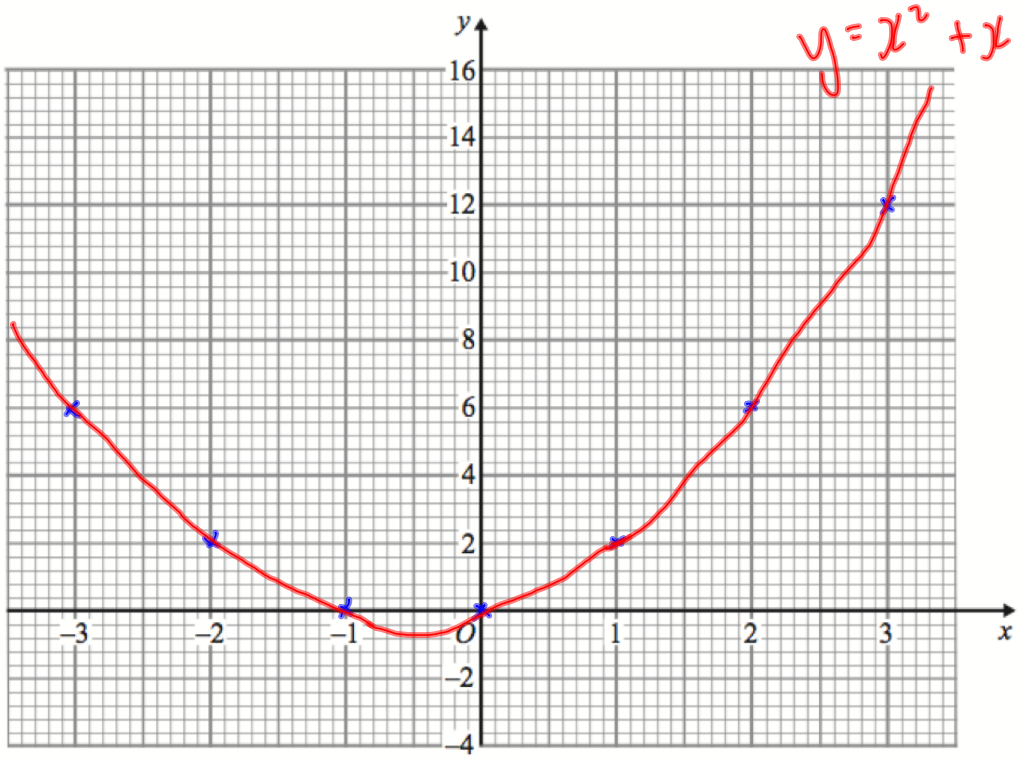
57. (a) Complete the table of values for $y = x^2 + x$

x	-3	-2	-1	0	1	2	3
y	6	2	0	0	2	6	12

(2)

56 Days to Go

(b) On the grid, draw the graph of $y = x^2 + x$ for the values of x from -3 to 3.

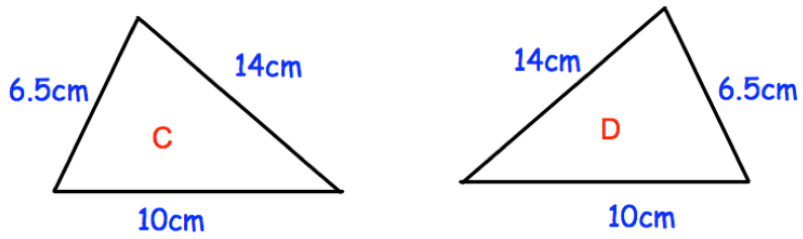


$y = x^2 + x$

(2)

58. For the pair of triangles below, state the condition why they are congruent.

20 Days to Go

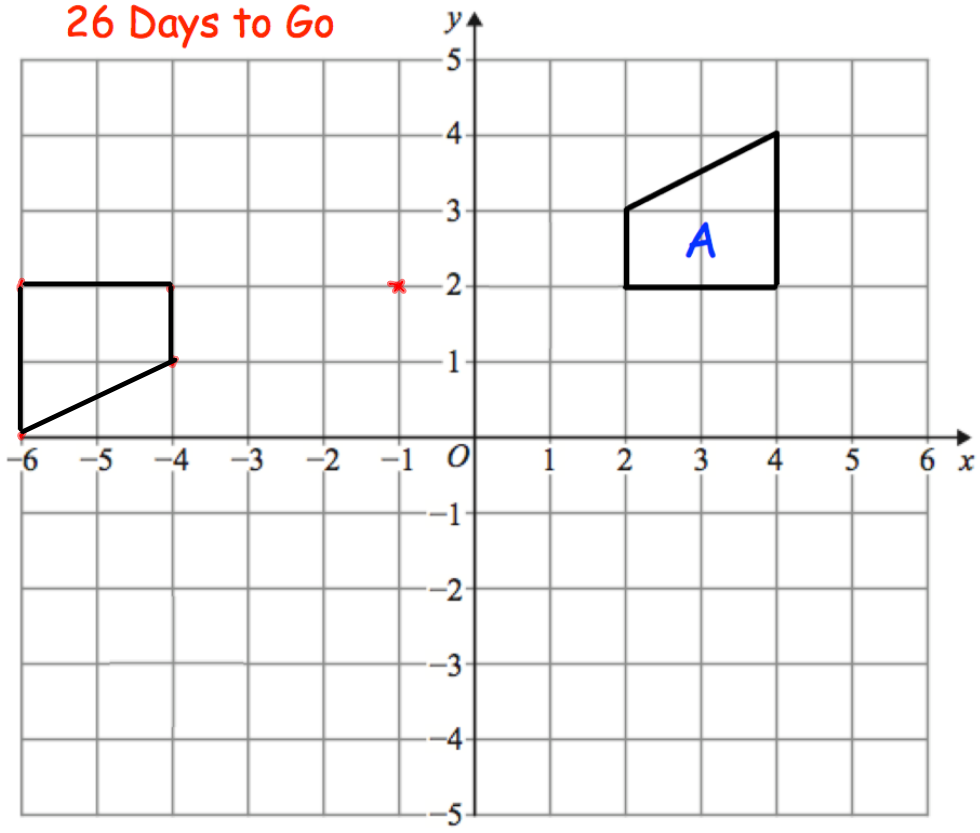


Condition: SSS

(1)

59.

26 Days to Go



Rotate shape A 180° about centre (–1, 2)

(3)

60. A large coffee costs £3.20

94 Days to Go

£2.40

A medium coffee costs $\frac{3}{4}$ of the price of a large coffee.

Work out the total cost of 5 large coffees and 2 medium coffees.

3.20 ÷ 4 = 0.80

0.80 × 3 = £2.40

5 × £3.20 = £16

2 × £2.40 = £4.80 +

£20.80

....

(4)

---

61. Complete the table.

91 Days to Go

Fraction	Decimal	Percentage
$\frac{17}{20}$	0.85	85%
$\frac{3}{25}$	0.12	12%
$\frac{23}{25}$	0.92	92%

$\frac{85}{100}$ $\frac{17}{20}$ $\frac{12}{100}$ $\frac{6}{50}$ $\frac{3}{25}$

25, 50, 75, 100, 125, 150, 175, 200, 225, 250

25) 23.000 = 00.92

(4)

62. The number of hours of sunshine on a day, across a number of cities is shown below.

89 Days to Go

☼ = 2 hours of sunshine

Norwich	☼ ☼ ☼ ☼ ☼ ◑
Dublin	☼ ☼ ☼ ☼
Belfast	☼ ☼ ☼ ◑
Aberdeen	☼ ☼
Cardiff	☼ ☼ ☼ ☼
Glasgow	☼ ☼ ☼ ☼ ◑

11
8
7
4
8

(a) How many more hours of sunshine was there in Norwich than Belfast?

11 − 7 = 4

4 .....hours

(1)

In Glasgow there was 9 hours of sunshine.

(b) Complete the pictogram.

(2)

---

63. Magnus flips a fair coin once and rolls an ordinary dice once.

(a) Write down all the possible outcomes.

82 Days to Go

T1 T2 T3 T4 T5 T6

H1 H2 H3 H4 H5 H6

(2)

(b) Find the probability that Magnus gets a head and a 3.

1/12

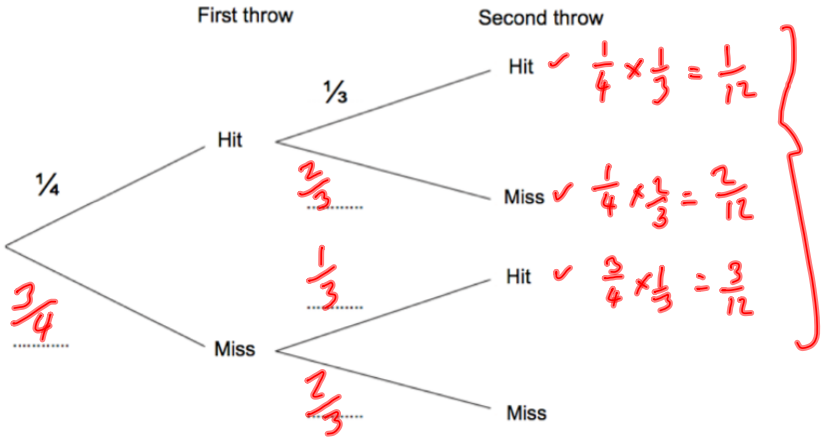
(1)

64. Jennifer is playing darts.
She throws two darts aiming for a Bullseye.

81 Days to Go

The probability Jennifer hits the Bullseye on her first throw is ¼.
The probability she hits the Bullseye on her second throw ⅓.

(a) Complete the tree diagram.



(b) Work out the probability Jennifer hits the Bullseye at least once.

$\frac{1}{12} + \frac{2}{12} + \frac{3}{12} = \frac{6}{12}$

$\frac{1}{2}$

.....

(2)

65.

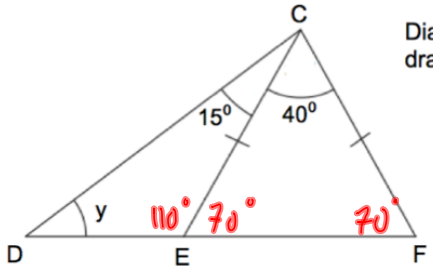


Diagram not drawn accurately

180 − 40 = 140
140 ÷ 2 = 70

DEF is a straight line.
CE = CF.
Angle ECF is 40°
Angle DCE is 15°

180 − 70 = 110°

80 Days to Go

Find the size of the angle marked y.

110 + 15 = 125
180 − 125 = 55

55

.....°

(4)

66. Complete the table below.

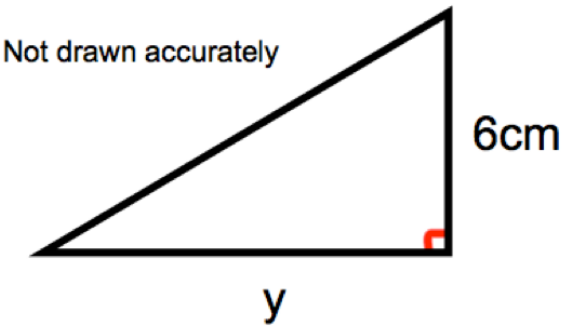
75 Days to Go

	Faces	Edges	Vertices
Cube	6	12	8
Square-based Pyramid	5	8	5
Triangular Prism	5	9	6

(6)

---

67. Shown below is a right-angled triangle.



The area of the triangle is 21cm²
Calculate y, the length of the base.

21 x 2 = 42

42 ÷ 6 = 7 cm

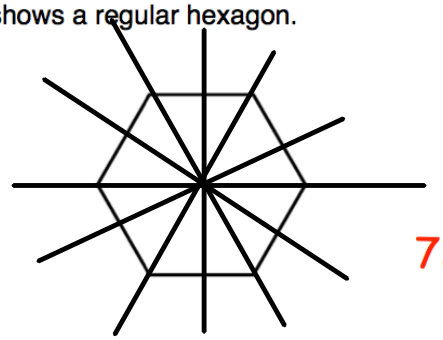
74 Days to Go

7

.....cm

(2)

68. The diagram below shows a regular hexagon.



72 Days to Go

(a) Write down the order of rotational symmetry of the hexagon.

6

.....

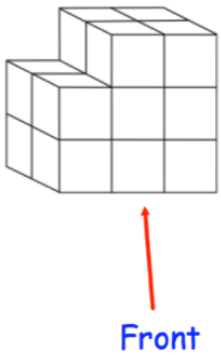
(1)

(b) On the diagram draw in all the lines of symmetry.

(2)

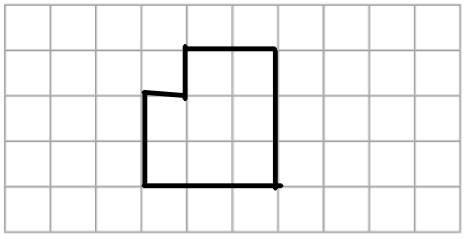
---

69. The diagram below shows a shape made with centimetre cubes.



71 Days to Go

On the centimetre square grid, draw the front elevation.



(2)

70. A holiday costs £1670

8 Days to Go

Lorenzo will pay a deposit of £250
He will then pay the rest of the cost in 8 equal monthly payments.

Work out the amount of each monthly payment.

1670 − 250 = £1420

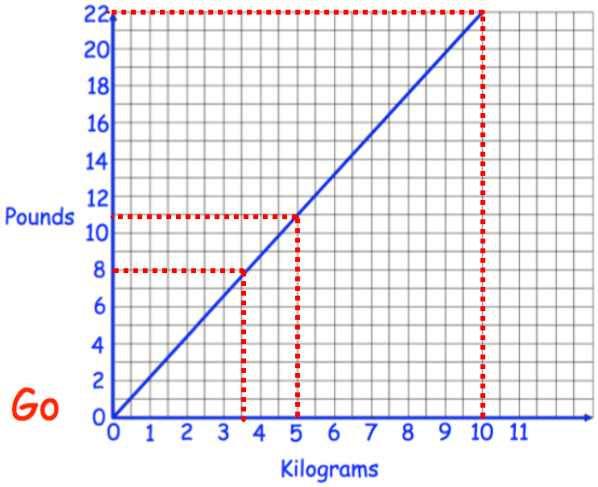
1420 ÷ 8 = £177.50

£ 177.50

(3)

---

71. Shown below is a conversion to change between kilograms and pounds.



10 Days to Go

(a) Using the graph, convert 5 kilograms to pounds.

11 .....pounds

(1)

(b) Using the graph, convert 8 pounds to kilograms.

3.6 .....kilograms

(1)

A piano weighs 150 kilograms.

(c) Change 150 kilograms to pounds.

10 kg = 22 pounds

100 kg = 220 pounds

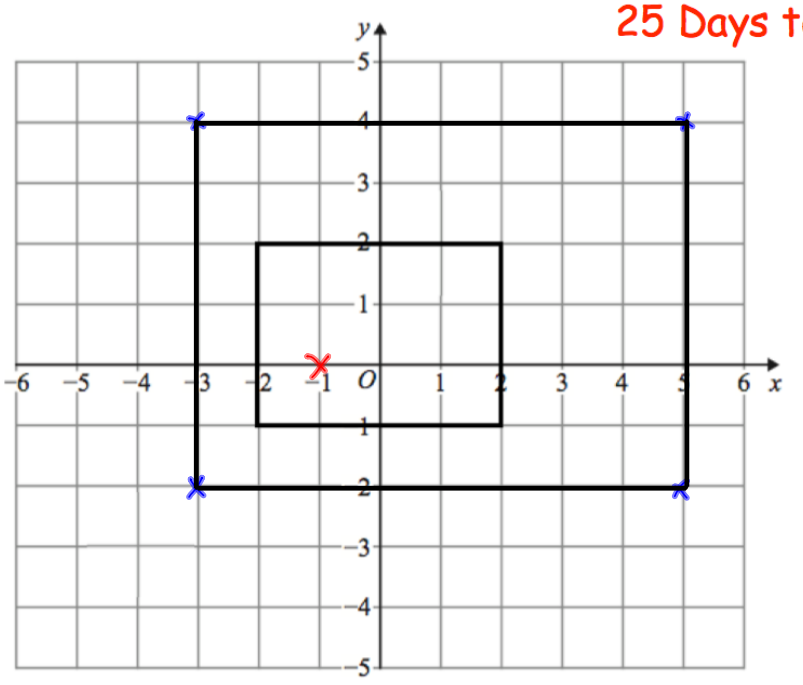
50 kg = 110 pounds

330 .....pounds

(2)

72. Shown below is a rectangle drawn on a coordinate grid.

25 Days to Go



Enlarge the rectangle by scale factor 2, using centre of enlargement (–1, 0).

(3)

---

73. A tennis club has 165 adult and child members.

The mean age of the 55 child members is 14 years.
The mean age of the 110 adult members is 40.7 years

Calculate the mean age of all 165 members.

33 Days to Go

14 x 55 = 770

40.7 x 110 = 4477

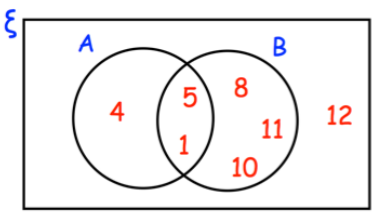
+ 5247

5247 ÷ 165 = 31.8

31.8 .....

(3)

74. Here is a Venn diagram.



34 Days to Go

A number is chosen at random.

(a) Write down P (A ∩ B)

2/7

.....

(2)

(b) Write down P (A ∪ B)

6/7

.....

(2)

---

75. The heights of 7 children are shown below.

1·32m 0·98m 1·16m

132cm ✓ 1.2m ✓ 98cm ✓ 0.99m ✓ 116cm ✓ 1.4m 1.33m ✓

(a) Change 132cm into metres.

1·32 .....m

(1)

(b) Change 98cm into metres.

0.98 .....m

(1)

(c) Order the heights, starting with the shortest.

98cm ✓ 0.99m ✓ 116cm ✓ 1.2m 132cm ✓ 1·33m ✓ 1.4m ✓

(1)

(d) Work out the median.

1·2m .....

(1)

38 Days to Go

37 Days to Go

76. Here is part of a train timetable.

	Departure times			
Antrim	12:30	13:00	14:00	16:00
Randalstown	12:45	13:15	14:15	16:15
Ballymena	13:01	13:31	14:31	16:31
Ballycastle	13:39	14:09	15:09	17:09

Freddy wants to travel from Randalstown to Ballycastle.
He arrives at Randalstown at 13:03 to catch the next train to Ballycastle.

(a) How long does this train journey take?

45 + 9 = 54

54 .....minutes
(2)

Jennifer lives in Antrim and her friend lives in Ballymena.
Jennifer lives a 5 minute walk from Antrim train station.
Her friend lives a 30 minute walk from Ballymena train station.
Jennifer wants to arrive at her friend's house **before** 3pm.
Plan Jennifer's journey to her friend's house.

Jennifer should leave her house before 12:55 and get the 13:00 train from Antrim. She should arrive in Ballymena train station at 13:31. Then after walking, she should arrive at her friend's house at 14:01.

(5)

77. The temperature, in °C, at midnight at a weather station on 5 days was recorded

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Temperature	-4	1	-6	1	-2

42 Days to Go

(a) What fraction of the days had a temperature below 0°C?

$\frac{3}{5}$

.....

(1)

(b) What is the range of the temperatures?

$1 - (-6) = 7$

7 .....°C

(1)

---

78. (a) Make *u* the subject of the formula

$v = u + 10t$

58 Days to Go

$-10t \quad -10t$

$v - 10t = u$

u = $v - 10t$

(2)

(b) Make *t* the subject of the formula

$v = u + 10t$

$-u \quad -u$

$v - u = 10t$

$\div 10 \quad \div 10$

$\frac{v-u}{10} = t$

t = $\frac{v-u}{10}$

(2)