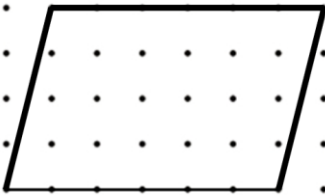
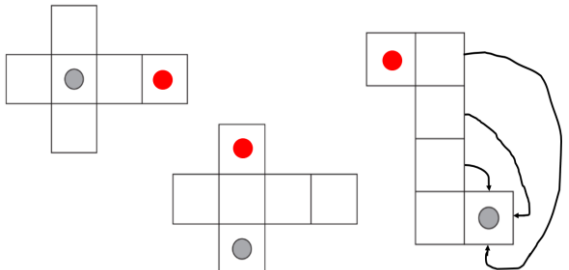


height must be 4 cm e.g. 	52
29,160	No, because regular shapes have angles of the same size, not just sides of the same length. 60°
$\frac{4}{24}$ or $\frac{1}{6}$	triangle with a base of 5 cm and height of 2 cm or base of 2 cm and height of 5 cm e.g. 
-75, -200	1.6 or $1\frac{3}{5}$ 0.625 or $\frac{5}{8}$
16	$\frac{1}{3}$ or $\frac{25}{8}$

 B, D, E	20 cm	
 5,925,000	35°	
 $s = 2n + 3$	300cm ³ 360cm ³ 12	
 0.5, 0.65	20 cm ²	
 20, 33.125	60%	

▶ 35 $S = 2n + 1$	▶ 40 12 kilometres It shows 22 km travelled in the first 60 minutes. This means that $40 - 22 = 18$ km travelled in the second hour. 22 km is further than 18 km.
▶ 39	▶ $x = 55^\circ$ $y = 20^\circ$
▶ 8, 19, 30	▶ 8 9
▶ 7	▶ 33
▶ 3,000,000	▶ many possible answers, e.g. $\frac{701}{1000}$

5 metres	
2 green bags, 3 red bags many possible explanations e.g. Nika might have bought 3 bags of green apples and Hassan might have bought 2 bags of red apples. 3 green bags is £2.25 for 18 apples (3 x 6) 2 red bags is £1.80 for 20 apples (2 x 10)	between 22.2°C and 22.8°C between 2:48pm and 2:52pm 5 degrees
10% of 55 is 5.5 You can't have 5.5 people.	M is (-10, 0) L is (30, -20)





All the same
They all have a volume of 16 cubes.
Volume is how much space a 3D shape takes up.
4

It's a straight line.

08:10



<
>
=

600 cm³

many possible answers
e.g. 10 cm x 10 cm x 3 cm
or 10 cm x 6 cm x 5 cm



many possible answers
e.g. divide by 40 to get 1%, then multiply by 100 to get 100%
or Divide by 4 to get 10%, then multiply by 10 to get 100%

13.5 cm²



 2.25 and 2.75	50	
 121 $q = 3n + 1$	16 kilometres 185	
 15, 16 or 17 6 or 7	A is (11, 9) B is (15, 3)	
 35	$\frac{4}{15}$	
 8	3	

 289 cm ² 205 cm ²	6 17.5	
 4.9 -0.5	6.8	
 £3.50	184	
 $\frac{8}{10}$ $\frac{9}{20}$	18 200	
 4,044,044	£1.25	



40

250 ml



between 7.2 cm and 7.8 cm

3 hours 45 minutes or $3\frac{3}{4}$ hours

$$\frac{1}{\boxed{10}} + \frac{\boxed{3}}{5} \frac{6}{10} = \frac{7}{10}$$

$$\frac{1}{\boxed{2}} \frac{5}{10} + \frac{\boxed{1}}{5} \frac{2}{10} = \frac{7}{10}$$

 $a = 56^\circ$ $b = 34^\circ$ 

19



2.5, 4, 5.5

 $m = 11$ and $n = 3$ $m = 19$ and $n = 3$ 

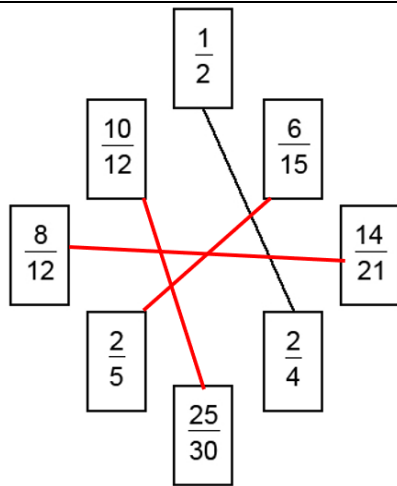
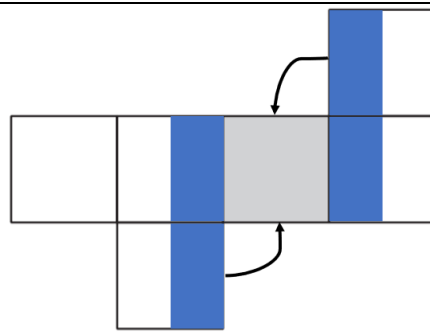
Type of triangle	Angle 1	Angle 2	Angle 3
Isosceles	90°	45°	45°
Right-angled	80°	90°	10°
Isosceles	70°	70°	40°
Isosceles	70°	55°	55°

 $\frac{3}{8}m$ 

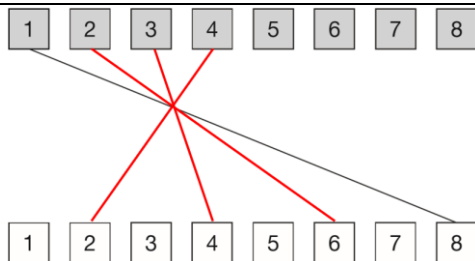
7



75 cm²



12 cm²



12 cm²



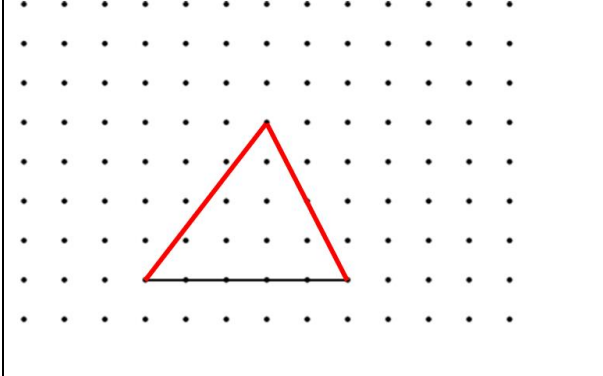
3,350,000

3,499,999

£5.50

3



	6,642,000 and 7,042,000	5%	
	95%		
	It will not be in the sequence. All numbers in the sequence are multiples of 40. 2140 is not in the 40 times table. $2140 \div 40 = 53$ remainder 20	Cross Tick Tick Cross	
	$k - 2$ $2k + 3$ $\frac{1}{2}k + 6$	$x = 125^\circ$ $y = 145^\circ$	
	-60, -140	5 cm	
	triangle must have a height of 4 cm e.g.	$x = 155^\circ$ $y = 85^\circ$	
			



302

49

12

40

5



-10, 45

$a = 17^\circ$



20

64 cm



sixty thousand

160 grams



16

75



	$n + 3$ $2m - 5$	80 cm^2 
	$a = $ 36° $b = $ 72° $c = $ 144°	$\frac{1}{3}$ or $\frac{2}{6}$ $\frac{1}{9}$ 
	37.75	18cm^3 
	£2.70 150 g	28 cm^2 
	4, 9, 14	$p = 575$ $q = 425$ 



A (4, 9) B (-8, -3)

(-5, 0)

260

470



68 cm

$$L = 2H - 4$$

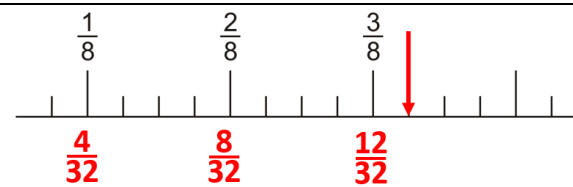
D is (-10, -4)

E is (0, 8)



7,999,000

7,990,000



3, 17

5 cm





$\frac{12}{20}$ or $\frac{3}{5}$

14 cm



7500 cm²

1500 cm²

(50, 15)



204

$W = 2S + 4$

1050 cm²



48 and 75

200 miles

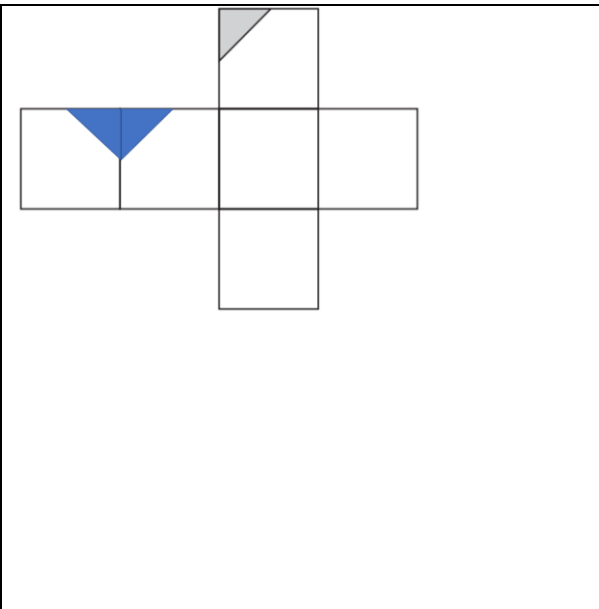


3.5 km

£1.50

250 grams





8:45pm

3 degrees



5,500,000

112,500



15

4

0



between £80 and £100

£50

15 cm



20

160





B is (5, 4)
D is (10, 0)

18 minutes or 19 minutes
between 6 minutes and 7.5 minutes



	hockey	rounders	Total
boys	22	28	50
girls	27	26	53
Total	49	54	103

108 cm²



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

137.5 grams



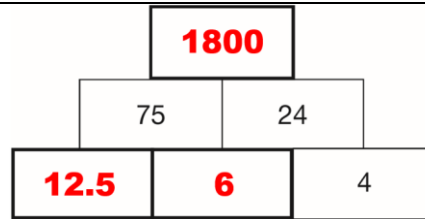
£4.06
200 grams

14 cm²
12 cm²





$(-3, -12)$



$X = 125$

$Y = -75$

b, d



3,000,000

80,000

-35, -80



0.625

£2.10



120

$t = 3n + 75$

4 cm





9

8th March

39.1 degrees

150 degrees



The cuboids have the same volume.

$$4\text{cm} \times 3\text{cm} \times 1\text{cm} = 12\text{cm}^3$$

$$3\text{cm} \times 2\text{cm} \times 2\text{cm} = 12\text{cm}^3$$

Class	Number in class	Football	Netball	Hockey
6M	27	7	7	13
6P	33	16	9	8
6T	30	5	10	15



7

8

400

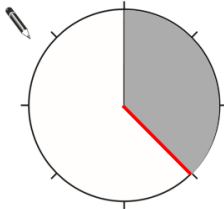




$r = 150^\circ$

$t = 110^\circ$

Pupils in class 6K



- Key:
- 11 year-old girls
 - All other pupils in the class



$x = 40^\circ$

$y = 25^\circ$

12:45pm

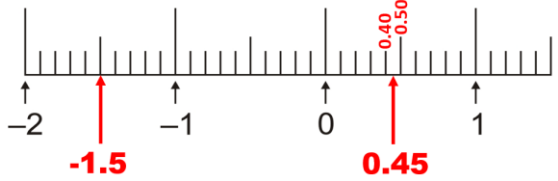


	Number who do wear glasses	Number who do not wear glasses	Total
Number of boys	1	15	16
Number of girls	3	11	14
Total	4	26	30

16

800



	between 26% and 28% 48	$14 + 23 + 13 + 13 = 63$ $63 \div 4 = 15.75$ (so more than 15) 22 kilometres	
	3 $\frac{10}{13}$	$a = 6c$	
	10	7.5 cm^2	
	$10^2 \div (10 \div 10) \div (10 \div 10) = 100$	$\frac{11}{5}$	
		16, 17, 18, 19	



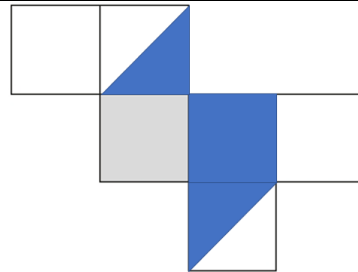
(1, -6)
or (2, -5)
or (3, -4)
or (4, -3)
or (5, -2)
or (6, -1)

3:15pm

13 degrees or 14 degrees



32



375 grams

3



220

64





number	section
99	J
29	G
-83	A
-15	E
44	H

132°



30

3.6 metres



Transport	Walk	Cycle	Bus	Car
Percentage of children	25%	10%	45%	20%
Angle on pie chart	90°	36°	162°	72°

(75, 36)



£22.50

k = -140

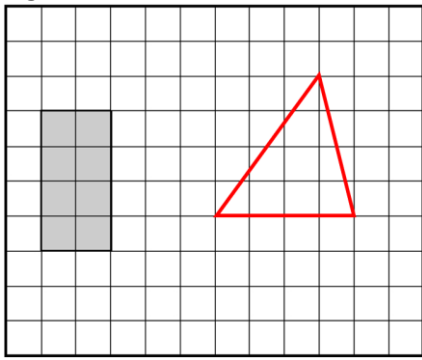
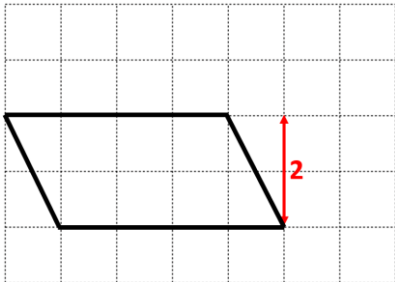
n = $\frac{1}{4}$ or 0.25



67

9.6 cm



P is (-12, -30) Q is (38, -30)	width = 22 cm height = 17 cm
12 cm	triangle must have a base of 4 cm and height of 4 cm e.g. 
many possible explanations e.g. $\frac{4}{7}$ is larger because it is equivalent to $\frac{36}{63}$ $\frac{5}{9}$ is only equivalent to $\frac{35}{63}$	parallelogram must have a base of 4 cm and height of 2 cm or a base of 2 cm and height of 4 cm e.g. 
B	94, 95 and 96
250 grams	30 cm, 1 cm and 1 cm or 15 cm, 2 cm and 1 cm or 5 cm, 3 cm and 2 cm or 6 cm, 5 cm and 1 cm

 54 cm	103 
 £7	600cm ³ many possible answers e.g. 10 cm by 10 cm by 3 cm 
 6.3	2.8 cm 
 5:1 2006	24 cm ³ 
 1 : 3	x = 55° y = 25° 



A = -80
B = 60

12.5 cm²

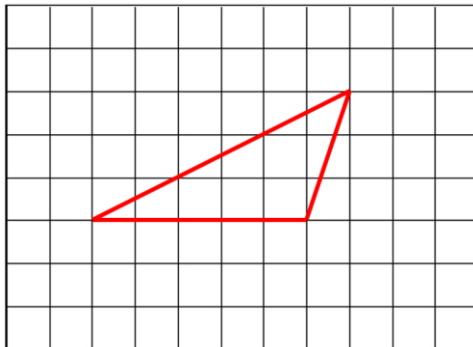


98
8

50°
20°



triangle must have a height of 3 cm and a base of 5 cm or a base of 3 cm and a height of 5 cm e.g.



Dimensions

	Dimensions		
Cuboid E	1	1	24
Cuboid F	1	2	12
Cuboid G	1	3	8
Cuboid H	1	4	6
Cuboid I	2	2	6
Cuboid J	2	3	4

(any order)



160

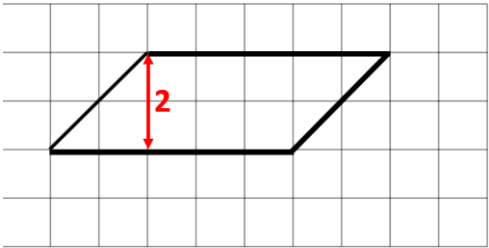
54 cm²



25
36

525 kilograms



	M is (15, 40) C is (20, 0)	Yes, $\frac{1}{3}$ is only equivalent to $\frac{3}{9}$ so $\frac{4}{9}$ is larger No, $\frac{4}{9}$ is equivalent to (the same size as) $\frac{8}{18}$	
	6,750,000	many possible answers e.g. when j is 1 then k is 4 or 2 and 8, 3 and 12, 4 and 16, etc.	
	39.6 kilometres	many possible answers e.g. 	
	2, -1, 1	£192	
	$\frac{23}{35}$	2.5	

Reasoning	between 8.6 kg and 8.8 kg
Spelling	between 3.2 kg and 3.4 kg
Arithmetic and Reading	
36%	5
46%	
2,109,000	$1\frac{5}{6}$
80,000	
$\frac{3}{16}$	0.75, 1.5, 96



rectangle must be 8 cm by 1 cm or 4 cm by 2 cm

108°



39 cm

A is (19, 25)

B is (-6, 19)



82

22

10 years old

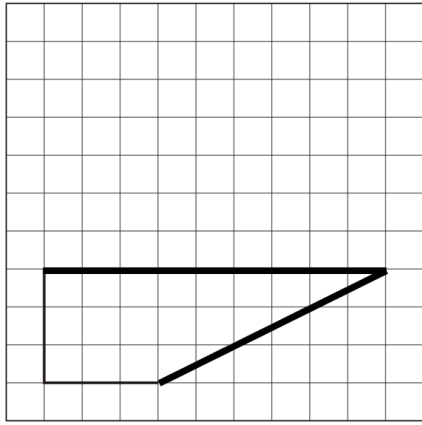
3 centimetres



 117 cm ²	500 and 600 45 and 55	
 50	a = 16 b = 8 c = 6	
 25p	27	
 between 140 metres and 160 metres 27 seconds or 28 seconds It reaches 200m at 3 seconds and falls below this height at 26 seconds $26 - 3 = 23$	the delivery cost is £5 (the same) whatever the cost of the toy	
 3.5, 3.5, 3.5	many possible answers e.g. $\frac{1}{8}$ and $\frac{7}{8}$	



many possible answers
e.g.



$$x = 34 \text{ cm}$$

$$y = 82 \text{ cm}$$

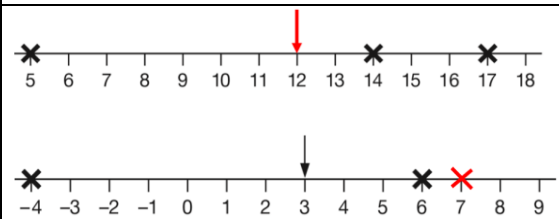


-100, 150

75 grams of margarine, 50 grams of lard



12



29

75 grams



36

16





Alfie is wrong.
many explanations possible, e.g.
If one of the numbers is 1, the answer will be the same as (not greater than) the other number. e.g. $3 \times 1 = 3$
If one of the numbers is 0, the answer will always be 0 no matter how large the other number is. e.g. $5 \times 0 = 0$
If one of the numbers is less than 1, the answer will always be smaller than the other number.
e.g. $\frac{1}{2} \times 4 = 2$
e.g. $5 \times 0.1 = 0.5$

49 cm



$\frac{2}{5}$ is larger because it's equivalent to $\frac{6}{15}$
 $\frac{1}{3}$ is only equivalent to $\frac{5}{15}$

2, 4

3, 2



Name of archer: Zhang	
What she scored with her 12 arrows	
Number of points	Frequency
7	1
8	0
9	7
10	4

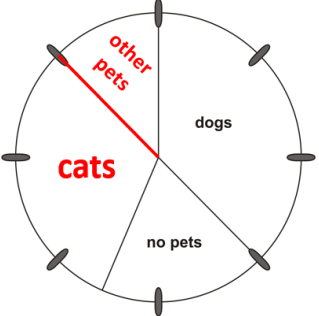
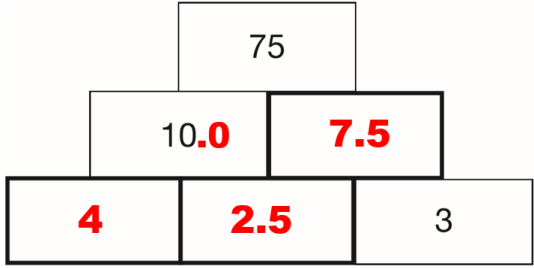
62 cm or 0.62 m



2051

13



	4 8 25
43 14 $S = 4N + 3$	
$\frac{3}{10}$	750 ml 625 g
£2.63 300 g	many possible answers e.g. 0.1 many possible answers e.g. 0.2



No. y is always 3 more than x .
-103 is 3 less than -100

$$y = x + 3$$
$$\text{or } x = y - 3$$

£550

15 seconds



25,000

1997

1964

It will not be in the sequence.
The numbers in this sequence are always 1
more than a multiple of 7.
 $777 \div 7 = 111$
so 777 is a multiple of 7



many possible answers
e.g. $0.001 + 0.002 + 0.007$

67



	if hexagon is split down the middle (so 6 pieces per hexagon), 8 pieces should be shaded e.g.	54.75	
	18°	4 cm	
	$x = 108^\circ$ $y = 54^\circ$	5,555,055	
	2.4 g	48 cm ²	
	4cm x 3cm x 2cm or 12cm x 2cm x 1cm or 24cm x 1cm x 1cm or 8cm x 3cm x 1cm or 6cm x 4cm x 1cm	16	
	11 cm		



between 700 and 1000

many explanations possible

e.g.

Elementary

1 minute = 30 words

so 10 minutes = 300 words

lines drawn vertically on 10 minutes and
horizontally on 300 words cross in Elementary

A is (2, 1)

The co-ordinates of point B are (12, 6).
x co-ordinates are increasing by 2 each time
from an even number and 11 is an odd number.
y co-ordinates are increasing by 1 each time
and point B is the 6th, not the 5th, point.



Mary is correct.

The numbers in the sequence are always 1
more than a multiple of 3.

(13, 15)

