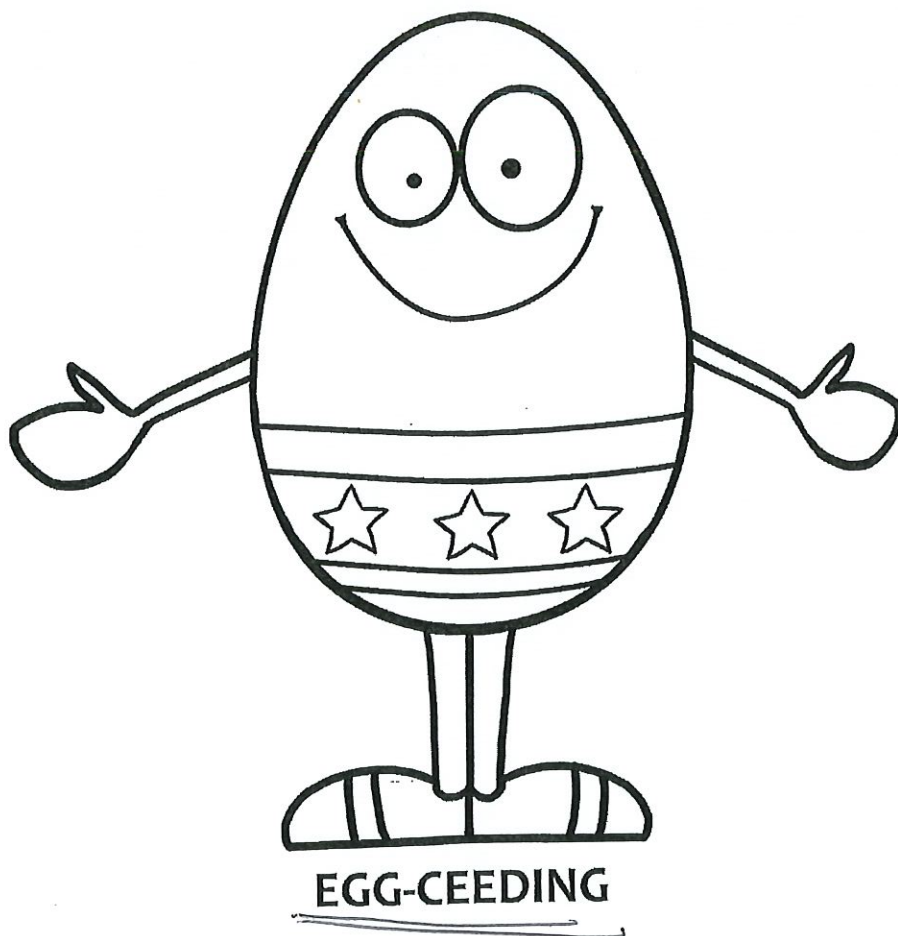


KS2 SAT Revision

Ten for Ten

Easter Practice Booklet

MATHEMATICS



Name:

Honesty Card

Ten for Ten

Easter Practice Booklet

KS2 Mathematics

The SATs are just around the corner, but no need to panic! Just use this booklet to do your 10 minutes practice for 10 days during the Easter holiday and you'll be ready for action when you get back to school : D

Each day, after you've completed the arithmetic and the reasoning section, mark your work yourself using the answer pack or go through it with your parents. This is important so you know what you can do and what you still need to work on.

Good luck!

Day 1 - Arithmetic



1 $3 \times 6 \times 0 \times 8 =$

0



1 mark

2 $34,805 - 56.07 =$

$$\begin{array}{r} 34\overset{7}{8}\overset{9}{0}\overset{4}{0}\overset{9}{0} \\ - \quad 56.07 \\ \hline 34748.93 \end{array}$$

34,748.93



1 mark

3 $108,000 \div 120 =$

$$\begin{array}{l} 108,000 \div 120 \\ 12 \times 9 = 108 \\ 12 \times 900 = 10,800 \end{array}$$

900



1 mark

4

$30\% \times 2,300 =$

$$\begin{array}{l} 100\% \quad \div 10 \quad 10\% \quad 1\% \\ (2300) \rightarrow (230) \rightarrow (23) \\ \downarrow 5\% \quad \downarrow 5\% \\ \div 2 \quad (11.5) \rightarrow (5.75) \\ \downarrow 25\% \\ (1.4375) \end{array}$$

$$230 \times 3 = 690$$

690



1 mark

5

$$\begin{array}{r} 158 \\ 13 \overline{) 2054} \end{array}$$

$1 \times = 13$

$2 \times = 26$

$3 \times = 39$

$4 \times = 52$

$5 \times = 65$

$6 \times = 78$

$7 \times = 91$

$8 \times = 104$

$9 \times = 117$

$10 \times = 130$

$$\begin{array}{r} 13 \\ 75 \\ \underline{65} \\ 104 \end{array}$$

158



2 marks

6

$80,000 - 1,600 =$

$$\begin{array}{r} 79999 \\ - 1599 \\ \hline 78400 \end{array}$$

78,400

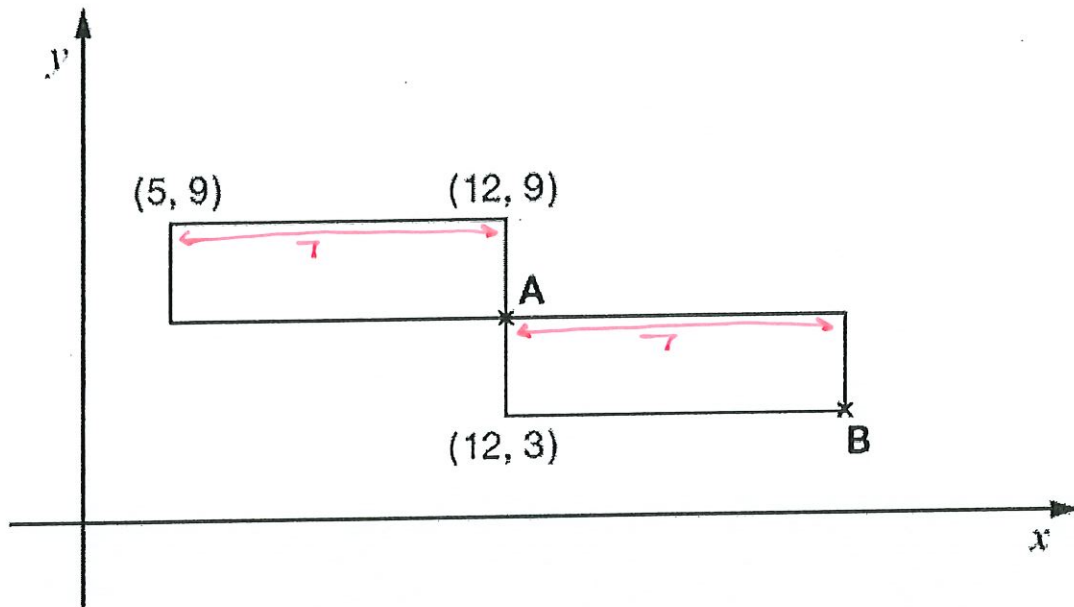


1 mark

Day 1 - Reasoning



- 1 This diagram shows two **identical** rectangles on coordinate axes.



Write the **coordinates** of point **A** and point **B**.

A is

(12 , 6)

B is

(19 , 3)

- 2 n stands for a whole number.

$2n$ is greater than 30

$5n$ is less than 100

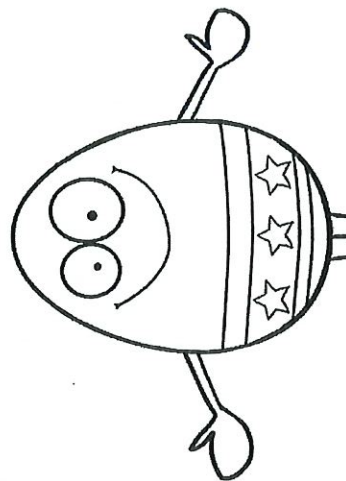
Write **all** the numbers that n stands for.

16, 17, 18, 19

3 Write the missing fraction.

$$\frac{1}{3} + \frac{1}{4} + \boxed{\frac{5}{12}} = 1$$

$\frac{4}{12} + \frac{3}{12}$



4 What is 10% of a half?

$$\frac{1}{10} \times 0.5$$

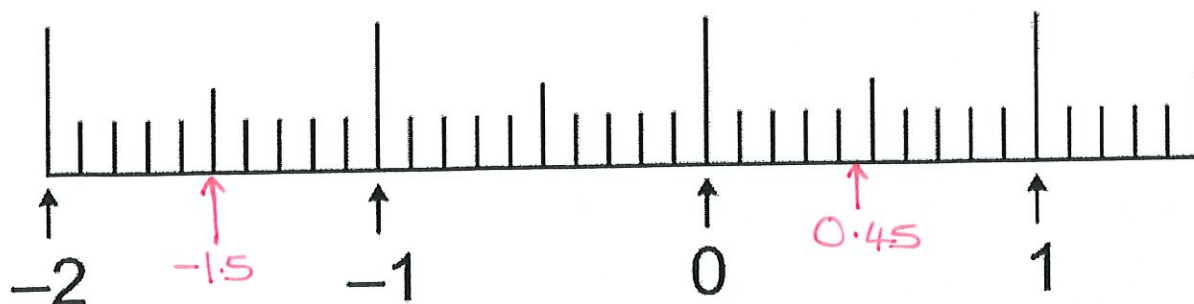
$$\boxed{0.05}$$

What percentage of 20 is 19?

$$\frac{19^{(x\%)}}{20} = \frac{95}{100}$$

$$\boxed{95 \%}$$

5 Mark with arrows the points -1.5 and 0.45 on the number line.



Day 2 - Arithmetic



1

$$50\% \text{ of } \frac{1}{3} =$$

$$\frac{1}{6}$$



1 mark

2

$$40,000 \times 500 =$$

$$200,000$$



1 mark

3

$$0.911 = 1 - 0.089$$



1 mark

4

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

$$\frac{4}{6} \text{ or } \frac{2}{3}$$



1 mark

5

$$85\% \text{ of } 480 =$$

$$\begin{array}{l} 100\% \rightarrow 10\% \rightarrow 1\% \\ (480) \rightarrow (48) \rightarrow (4.8) \\ \downarrow \\ 50\% \rightarrow 5\% \\ (240) \rightarrow (24) \\ \downarrow \\ 25\% \\ (120) \end{array}$$

$$\begin{array}{l} 15\% = 48 + 24 \\ = 72 \\ 480 - 72 = 408 \end{array}$$

$$408$$



1 mark

6

$$7,609 \times 44 =$$

$$\begin{array}{r} 7609 \\ \times 44 \\ \hline 30436 \\ 304360 \\ \hline 334796 \end{array}$$

$$334,796$$

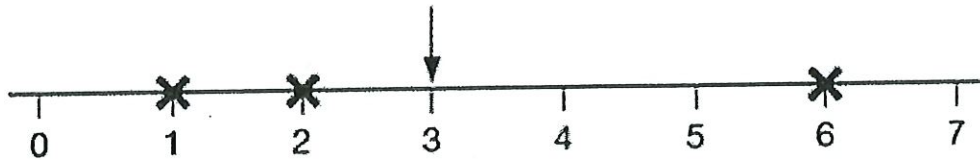


1 mark

Day 2 - Reasoning



- 1 The arrow below points to the **mean** of the three numbers shown by crosses.



- (a) Draw an arrow that points to the mean of the three numbers shown below.



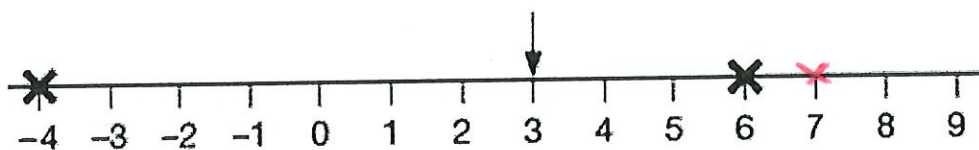
$$5 + 14 + 17 = 36$$

$$36 \div 3 = 12$$

- (b) The arrow below points to the mean of three numbers.

One of the numbers is missing.

Draw a cross to show the position of the missing number.



$$9 \div 3 = 3 \quad \text{so} \quad -4 + 6 + ? = 9$$

- 2 Jack has two **square-based pyramids** that are the same size.

He sticks the square faces together to make a new 3-D shape.

How many **faces** and how many **edges** does his new 3-D shape have?

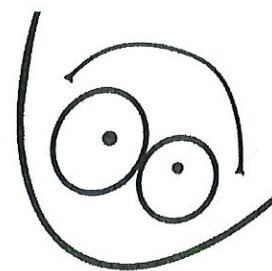
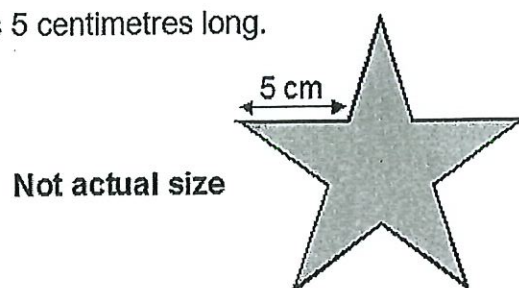
8 faces

and

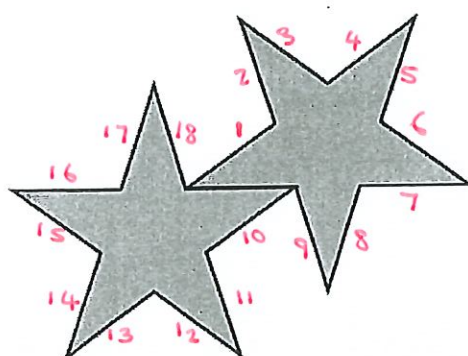
12 edges

3 Millie has some star-shaped tiles.

Each edge of a tile is 5 centimetres long.



She puts two tiles together to make this shape.



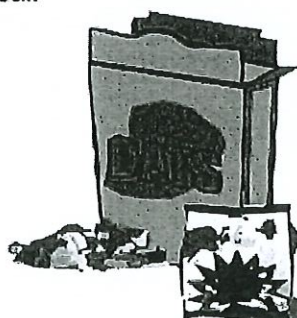
$$18 \times 5 = 90$$

Work out the perimeter of Millie's shape.

90 cm

4 This is Kirsty's recipe for breakfast cereal.

- 50 grams of oats
- 30 grams of raisins
- 40 grams of nuts



If she uses 125 grams of oats, how many grams of raisins does she need?

Show your method	$50 \times 2.5 = 125$																			
	so																			
	$30 \times 2.5 = 75$																			
																75 g				

Day 3 - Arithmetic



1

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

$$\frac{15}{15} = 1$$

$$\frac{15}{15} \text{ or } 1$$



1 mark

2

$$209 \times 777 =$$

$$\begin{array}{r} 209 \\ \times 777 \\ \hline 1463 \\ 14630 \\ 146300 \\ \hline 162393 \\ 11 \end{array}$$

$$162,393$$



1 mark

3

$$8,648 + 7,947 =$$

$$\begin{array}{r} 8648 \\ + 7947 \\ \hline 16595 \\ + + \end{array}$$

$$16,595$$



1 mark

4

$$9,924 \div 6 =$$

$$\begin{array}{r} 1654 \\ 6 \overline{) 9924} \end{array}$$

1,654



1 mark

5

$$9 \times 3\frac{1}{4}$$

$$\frac{9}{1} \times \frac{13}{4} = \frac{117}{4} = 29\frac{1}{4}$$

or

$$9 \times 3 = 27$$

$$\frac{9}{1} \times \frac{1}{4} = \frac{9}{4} = 2\frac{1}{4} + 27$$

29 $\frac{1}{4}$ 

1 mark

6

$$\frac{6}{4} \times 130 =$$

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

$$1 \times 130 = 130$$

$$\frac{1}{2} \times 130 = 65$$

$$130 + 65 = 195$$

195



1 mark

Day 3 - Reasoning



1 Miss Mills is making jam to sell at the school fair.

Strawberries cost £7.50 per kg.

Sugar costs 79p per kg.

10 glass jars cost £6.90

She uses 12 kg of strawberries and 10 kg of sugar to make 20 jars full of jam.

Calculate the total cost to make 20 jars full of jam.

Show
your
method.

$12 \times £7.50 = £84 + £6 = £90$
$10 \times £0.79 = £7.90$
$2 \times £6.90 = £13.80$
$£90 + £7.90 + £13.80$
$ \begin{array}{r} 90.00 \\ 7.90 \\ \underline{13.80} \\ 111.70 \end{array} $
£ 111.70

2 Write the missing number.

$$12.5 \div \boxed{2.5} = 7.5 \div 1.5$$

$\checkmark$
 $= 5$

$$2.5 \times 5 = 12.5$$

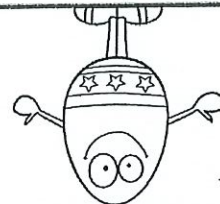
3 $n = 22$

What is $2n + 9$?

$$= 2 \times 22 + 9$$

$$= 44 + 9 = 53$$

53



$2q + 4 = 100$

Work out the value of q .

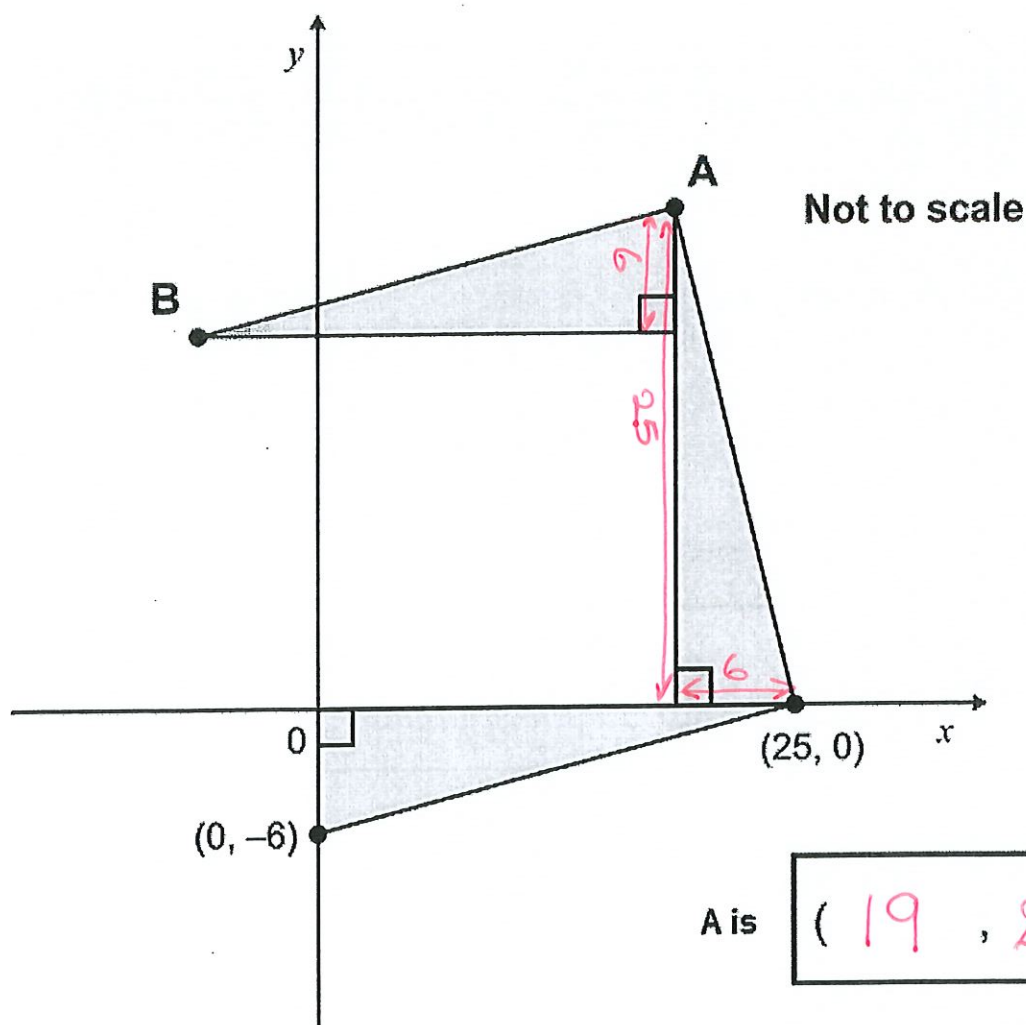
$$2q = 96$$

$$96 \div 2 = 48$$

$q =$

48

4 The diagram shows three **identical** shaded triangles on coordinate axes.



A is

(19 , 25)

What are the coordinates of A and B?

B is

(-6 , 19)

Day 4 - Arithmetic



1

$$\frac{10}{3} \div \frac{1}{3} =$$

keep change flip

$$\frac{10}{3} \times \frac{3}{1} = \frac{30}{3} = 10$$

10



1 mark

2

$$\frac{4}{5} - 0.65 =$$

$$\frac{4}{5} = 0.8 \quad \left(\frac{1}{5} = 0.2\right)$$

$$0.8 - 0.65 = 1.45$$

1.45



1 mark

3

$$12 - 7.06 =$$

$$\begin{array}{r} 12.00 \\ - 7.06 \\ \hline 4.94 \end{array}$$

4.94



1 mark

4

$24 \times 24 =$

$$\begin{array}{r} 24 \\ \times 24 \\ \hline 96 \\ 480 \\ \hline 576 \end{array}$$

576



1 mark

5

$1\frac{1}{5} + 1\frac{1}{6} =$

$$1 + 1 = 2$$

$$\frac{1}{5} + \frac{1}{6} = \frac{6}{30} + \frac{5}{30} = \frac{11}{30}$$

$$2 + \frac{11}{30}$$

 $2\frac{11}{30}$


1 mark

6

$2 \times 3 \times 4 \times 5 =$

120



1 mark



Day 4 - Reasoning

- 1 (a) Write numbers in the boxes to make this fraction calculation correct.

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

$= \frac{6}{10}$

- (b) Now write two **different** numbers to make the calculation correct.

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

$\frac{5}{10} + \frac{2}{10}$

- 2 Lara chooses a number less than 20

She divides it by 2 and then adds 6

She then divides this result by 3

Her answer is 4.5

What was the number she started with?

Show
your
method

Work backwards using inverse:

$$4.5 \times 3 = 13.5$$

$$13.5 - 6 = 7.5$$

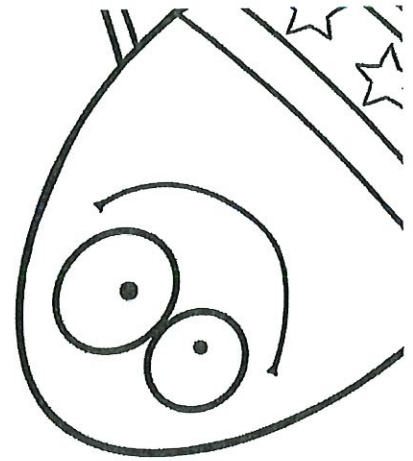
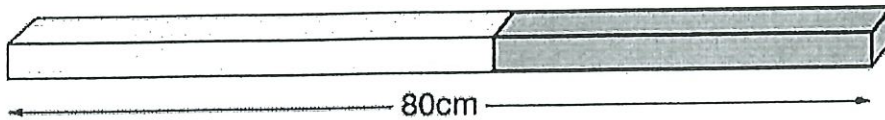
$$7.5 \times 2 = 15$$

15

3 Alfie has two sticks.

He puts them end to end.

Not actual size



One stick is **10cm longer** than the other stick.

How long are the two sticks?

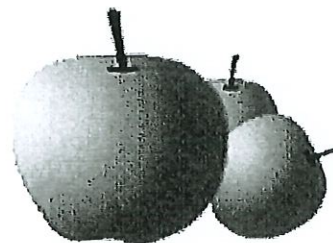
Show your method	$35 + 45 = 80$	
	Halve 80 = 40	35 cm
	(1) Add 5 to 40	
	(2) Subtract 5 from 40	45 cm

4 Three apples have a **mean** (average) mass of 100 grams.

The largest apple is removed.

The **mean** mass of the remaining two apples is 70 grams.

The weight of 3 apples
= 300g (in total)
Mean = $300g \div 3 = 100g$
Total of 2 apples = 140g
Mean = $140 \div 2 = 70g$



What is the mass of the largest apple?

So $300g - 140g = \underline{\underline{160g}}$

Day 5 - Arithmetic



1

$$5 \times 5 \times 5 \times 5 =$$

$$5 \times 5 = 25$$

$$25 \times 5 = 125$$

$$125 \times 5 = 625$$

625



1 mark

2

$$\frac{20}{7} + \frac{30}{9} =$$

OR $\frac{180}{63} + \frac{210}{63} = \frac{390}{63}$

$$\frac{20}{7} = 2\frac{6}{7}$$

$$\frac{30}{9} = 3\frac{3}{9} = 3\frac{1}{3}$$

$$2 + 3 = 5 \quad \frac{6}{7} + \frac{1}{3} = \frac{18}{21} + \frac{7}{21}$$

$$5\frac{25}{21} = 6\frac{4}{21}$$

6 $\frac{4}{21}$



1 mark

3

$$43.1 - 8.89 =$$

$$\begin{array}{r} 3 \quad 12 \quad 10 \quad 1 \\ 43.10 \\ - 8.89 \\ \hline 34.21 \end{array}$$

34.21



1 mark

4

$$\frac{2}{3} \text{ of } 270 =$$

$$\begin{array}{|c|c|c|} \hline 270 \\ \hline 90 & 90 & 90 \\ \hline 180 \\ \hline \end{array}$$

180



1 mark

5

$$308,578 - 19,089 =$$

$$\begin{array}{r} 291461 \\ 308578 \\ - 19089 \\ \hline 289489 \end{array}$$

289,489



1 mark

6

$$\frac{2}{3} \div 3 =$$

keep change flip

$$\frac{2}{3} \times \frac{1}{3} = \frac{2}{9}$$

 $\frac{2}{9}$ 

1 mark



Day 5 - Reasoning

1 Write the missing number.

$$70 \div \boxed{20} = 3.5$$

2 This sequence of numbers goes up by 40 each time.

40 80 120 160 200 ...

This sequence continues.

Will the number 2140 be in the sequence?

Circle Yes or No.

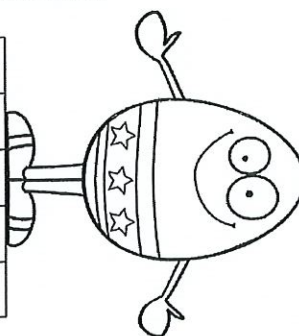
 Yes / No

Explain how you know.

If you divide each by 10 you will see that 4 is not a factor of 214.

3 Here is part of the bus timetable from Riverdale to Mott Haven.

Riverdale	10:02	10:12	10:31	10:48
Kingsbridge	10:11	10:21	10:38	10:55
Fordham	10:28	10:38	10:54	11:11
Tremont	10:36	10:44	11:00	11:17
Mott Haven	10:53	11:01	11:17	11:34



How many minutes does it take the 10:31 bus from Riverdale to reach Mott Haven?

46 minutes

Mr Evans is at Fordham at 10:30

What is the earliest time he can reach Tremont on the bus?

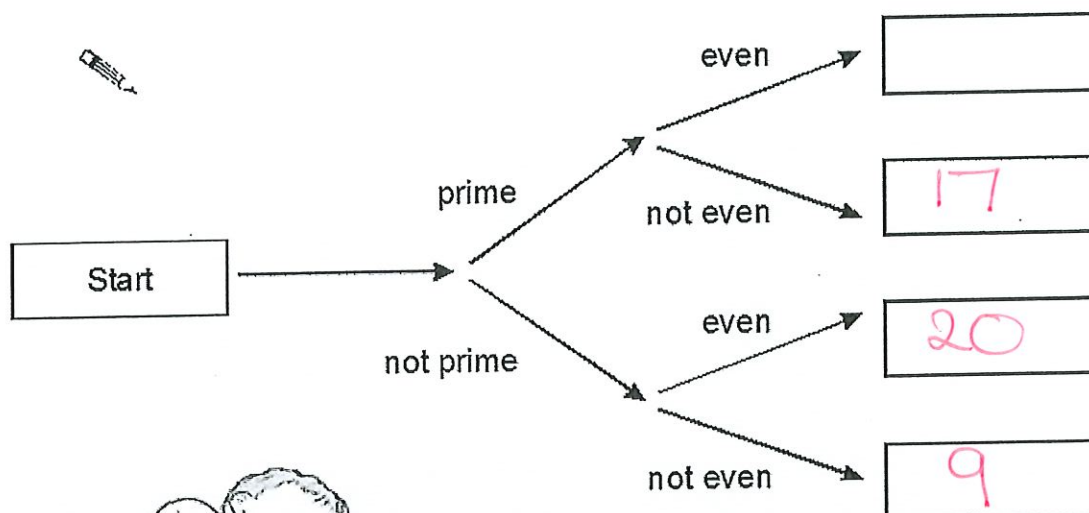
10:44

4 Here is a diagram for sorting numbers.

Write these three numbers in the correct boxes.

You may not need to use all of the boxes.

9 17 20



5



How many **days** old will the baby be when she has lived for **one million seconds**?

Show
your
method

60 seconds = 1 minute
60 minutes = 1 hour
$60 \times 60 = 3,600$ seconds per hour
24 hours per day = $24 \times 3,600$ secs.
$ \begin{array}{r} 3600 \\ \times 24 \\ \hline 14400 \\ 72000 \\ \hline 86400 = 1 \text{ day} \end{array} $
10 days = 864,000
11 days = 950,400
12 days = 1,036,800

11 (whole) days

Day 6 - Arithmetic



1

$$0.69 \div 2 =$$

$$69 \div 2 = 34.5$$

then divide by 100

$$0.345$$



1 mark

2

$$3^3 + 4^3 + 5^3 =$$

$$3 \times 3 \times 3 = 27$$

$$4 \times 4 \times 4 = 64$$

$$5 \times 5 \times 5 = 125$$

$$27 + 64 + 125 = 216$$

$$216$$



1 mark

3

$$1 \text{ or } \frac{6}{6} = \frac{4}{6} + \frac{2}{6}$$



1 mark

4

$$261,967 - 53,782 =$$

$$\begin{array}{r} 261,967 \\ - 53,782 \\ \hline 208,185 \end{array}$$

208,185



1 mark

5

$$3,036 \div 11 =$$

$$\begin{array}{r} 276 \\ 11 \overline{) 3036} \\ \underline{11} \\ 11 \\ \underline{11} \\ 0 \\ \underline{0} \\ 36 \\ \underline{33} \\ 36 \end{array}$$

276



1 mark

6

$$\frac{1}{5} \times \frac{1}{6} =$$

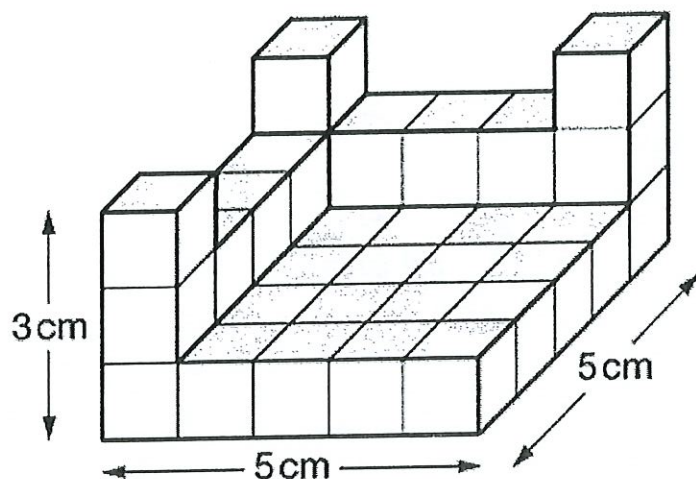
$$\frac{1}{30}$$


1 mark



Day 6 - Reasoning

1 This shape is made of wooden centimetre cubes.



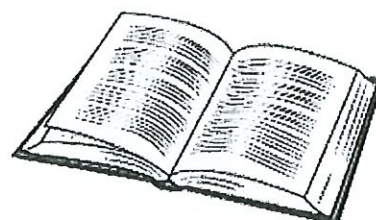
Not
actual
size

How many **more** centimetre cubes are needed to make it into a solid cuboid 3 cm tall, 5 cm long and 5 cm wide?

$$\text{Volume} = 5 \times 5 \times 3 = 75 \text{ cm}^3$$
$$75 - 37 = 38$$

38

2 On Saturday Lara read $\frac{2}{5}$ of her book.



On Sunday she read the **other** 90 pages to finish the book.

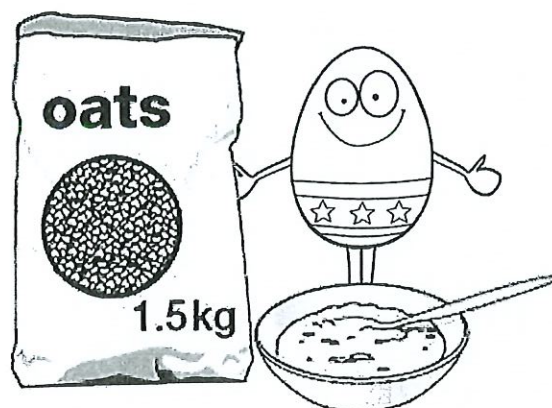
How many pages are there in Lara's book?

Show
your
method

150				
30	30	30	30	30
60		90		

150

- 3 A packet contains 1.5 kg of oats.



Every day Maria uses 50 g of oats to make porridge.

How many days does the packet of oats last?

Show your method	$1.5\text{kg} = 1500\text{g}$	
	$1500\text{g} \div 50\text{g}$	
	$150 \div 5 = 30$	
	30 days	

- 4 Leila knows that

$$65 \times 3 = 195$$

Explain how she can **use this information** to find the answer to this multiplication:

$$165 \times 3$$

$$\begin{aligned} (3 \times 65) + (3 \times 100) &= 195 + 300 \\ &= 495 \end{aligned}$$

Day 7 - Arithmetic



1

$$(35 \times 9) + (15 \times 9) =$$

35	or $35 \times 10 - 35$	OR
$\times 9$		$35 + 15$
315		$= 50$
4		50×9
15	or $15 \times 10 - 15$	
$\times 9$		450
135	$315 + 135 = 450$	

☐

1 mark

2

$$9,000,800 - 7,999,990 =$$

8 9 9 9	
9 000799	
- 7999989	
1000810	
or Count up to	1,000,810
8 million = 10 then add	
on to 1 million 8 hundred	

☐

1 mark

3

		7	6	0	9
$\times$				4	4

30 ² 43 ⁶
30 ² 43 ⁶ 0
334796

Show
your
method

334,796

☐

2 marks

4

$28 - 5 \times 3 =$

BODMAS

$5 \times 3 = 15$

$28 - 15 = 13$

13



1 mark

5

$35\% \times 440 =$

100%

440

10%

44

↓ 50%

220

25%

110

$110 + 44$

154



1 mark

6

43156297

129

339

301

387

$1 \times = 43$

$2 \times = 86$

$3 \times = 129$

$4 \times = 172$

$5 \times = 215$

$6 \times = 258$

$7 \times = 301$

$8 \times = 344$

$9 \times = 387$

$10 \times = 430$

379



2 marks

Show
your
method

Day 7 - Reasoning



1 The area of a rugby pitch is 6,108 square metres.

A football pitch measures 112 metres long and 82 metres wide.

How much larger is the area of the football pitch than the area of the rugby pitch?

Show
your
method

$$\begin{array}{r} 112 \\ \times 82 \\ \hline 224 \\ 8960 \\ \hline 9184 \end{array}$$

$$\begin{array}{r} 9184 \\ - 6108 \\ \hline 3076 \end{array}$$

3,076 square metres

2 An isosceles triangle has a perimeter of 12cm.

One of its sides is 5cm.

What could the length of each of the other two sides be?

Two different answers are possible.

Give **both** answers.



5 cm

and

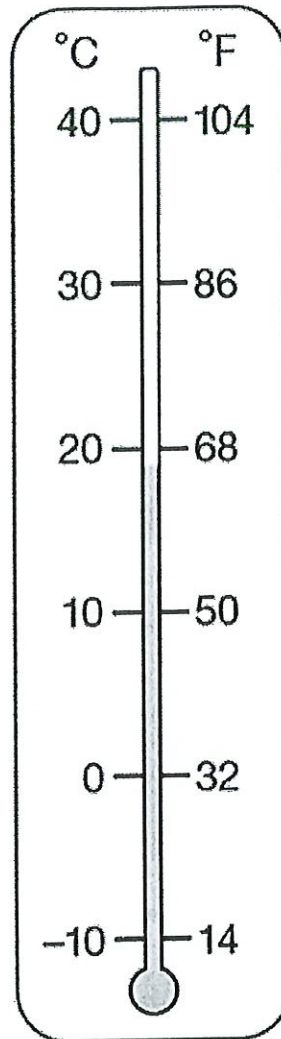
2 cm

3.5 cm

and

3.5 cm

3 This thermometer shows temperatures in both °C and °F.



Work out what **25°C** is in °F.

Each jump of
 $10^{\circ}\text{C} = 18^{\circ}\text{F}$
so $5^{\circ}\text{C} = 9^{\circ}\text{F}$

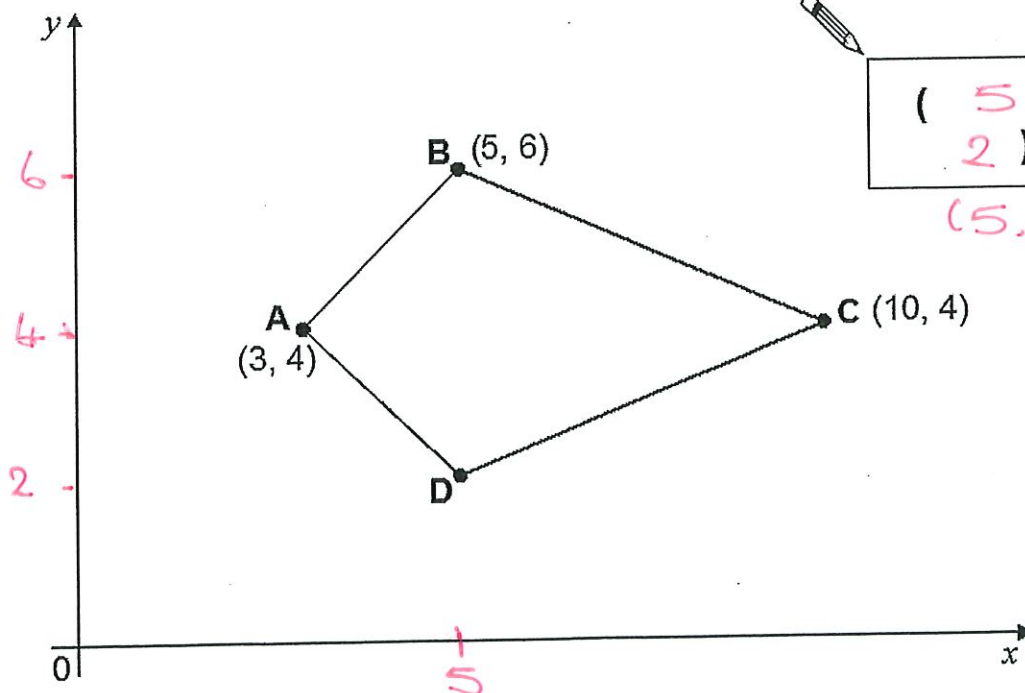
20°C is 68°F

$68 + 9 = 77$

so:

$25^{\circ}\text{C} = \underline{\underline{77^{\circ}\text{F}}}$

4 Here is a kite.



(5 ,
2)
 $(5, 2)$

Write the coordinates of point D.

Day 8 - Arithmetic



1

$$0.077 \div 2 =$$

$$\times 1000 = 77$$

$$77 \div 2 = 38.5$$

$$\div 1000 = 0.0385$$

0.0385



1 mark

2

$$99\% \text{ of } 356 =$$

$$100\% \rightarrow 10\% \rightarrow 1\%$$

$$(356) \rightarrow (35.6) \rightarrow (3.56)$$

$$\begin{array}{r} 356.00 \\ - 3.56 \\ \hline 352.44 \end{array}$$

$$356 - 3.56$$

352.44



1 mark

3

3 1 7 3 7 8

238

$$\begin{array}{r} 62 \\ \times 17 \\ \hline 934 \\ 2480 \\ \hline 2380 \end{array}$$

$$1 \times = 31$$

$$2 \times = 62$$

$$3 \times = 93$$

$$4 \times = 124$$

$$5 \times = 155$$

$$6 \times =$$

$$7 \times =$$

$$8 \times = 248$$

$$9 \times =$$

$$10 \times = 310$$

238



2 marks

Show
your
method

4

$$\frac{4}{5} + \frac{5}{15} =$$

$$\frac{4}{5} = \frac{12}{15}$$

$$\frac{12}{15} + \frac{5}{15} = \frac{17}{15}$$

$$\frac{17}{15} \text{ or } 1\frac{2}{15}$$



1 mark

5

$$\frac{6}{7} \div 2 =$$

keep change flip

$$\frac{6}{7} \times \frac{1}{2} = \frac{6}{14} = \frac{3}{7}$$

$$\frac{3}{7}$$



1 mark

6

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

(common multiple)

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

$$2\frac{3}{6} + \frac{2}{6} = 2\frac{5}{6}$$

$$2\frac{5}{6}$$



1 mark

1

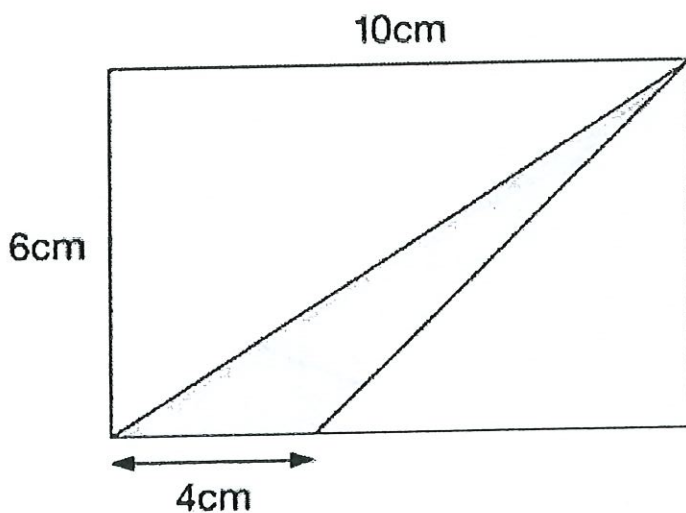
20 50 80 110 ...

The sequence continues in the same way.

Which number in the sequence will be **closest** to 300?

Show your method	$300 - 110 = 190$									
	$110 + 180 = 290$									
	$110 + 210 = 320$									
	290									

2 The diagram shows a shaded triangle inside a rectangle.



Not actual
size

$$\frac{b \times h}{2}$$

$$\frac{4 \times 6}{2} = \frac{24}{2}$$

$$= \underline{\underline{12\text{cm}^2}}$$

What is the area of the shaded triangle?

3 Liam thinks of a number.



He **multiplies the number by 5** and then **subtracts 60** from the result.

His answer equals the number he started with.

What was the number Liam started with?

 Show your working. You may get a mark.

$$x \times 5 - 60 = x$$

or
$$x + 60 \div 5 = x$$

I know $12 \times 5 = 60$ so it must be more than 12 and divisible by 5.

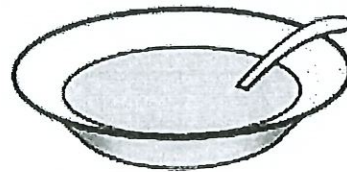
$$15 \times 5 = 75 - 60 = 15$$

15

4 Alfie did a survey to find which soup was most popular.

The choices were:

- tomato
- chicken
- mushroom



A quarter of the children chose chicken soup.

Four times as many children chose tomato soup as chose mushroom soup.

Alfie makes a pie chart to show this information.

What **angle** should he use for the children who chose tomato soup?

Chicken = 90°

Left with 270° - $\frac{1}{5}$ of $270 =$ mushroom $= 54^\circ$
 $\frac{4}{5}$ of $270 =$ tomato $= 216^\circ$
 $= \underline{\underline{216^\circ}}$

Day 9 - Arithmetic



1

$$345 \times 5 \times 4 =$$

This is the same as 345×20

$$345 \times 2 = 690$$

$$690 \times 10 = 6900$$

6,900



1 mark

2

$$3 - 7 \times 9 =$$

BODMAS

$$7 \times 9 = 63$$

$$3 - 63 = -60$$

-60



1 mark

3

120

$$= 1,320 \div 11$$

$$11 \times 12 = 132$$

$$11 \times 120 = 1320$$



1 mark

4

90% of 2,000 =

$$10\% \text{ of } 2000 = 200$$

$$2000 - 200 = 1800$$

1,800



1 mark

5

3 2 5 7 9 2

$$\begin{array}{r} 32 \\ 259 \\ 256 \\ \hline 32 \end{array}$$

$$1 \times 32$$

$$2 \times 64$$

$$3 \times$$

$$4 \times 128$$

$$5 \times 160$$

$$6 \times$$

$$7 \times$$

$$8 \times 256$$

$$9 \times$$

$$10 \times 320$$

181



2 marks

6

$$\frac{3}{4} + \frac{3}{12} =$$

Common denominator needed

$$\frac{3}{4} = \frac{9}{12}$$

$$\frac{9}{12} + \frac{3}{12} = \frac{12}{12}$$

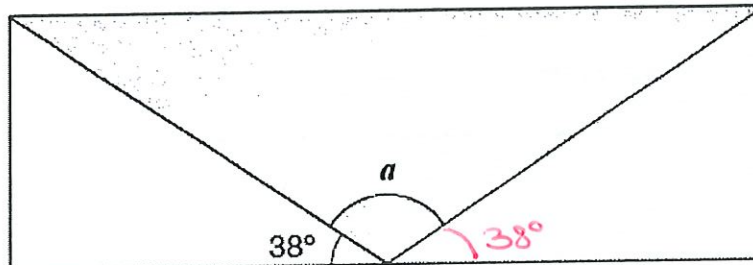
 $\frac{12}{12}$ or 1

1 mark



Day 9 - Reasoning

- 1 A shaded **isosceles** triangle is drawn inside a rectangle.



Not
to
scale

Calculate the size of angle a .

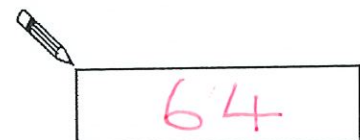
Show your method

$38^\circ + 38^\circ + a = 180^\circ$
$76^\circ + a = 180^\circ$
$76^\circ + 104^\circ = 180^\circ$
104°

- 2 Three-quarters of a number is 48

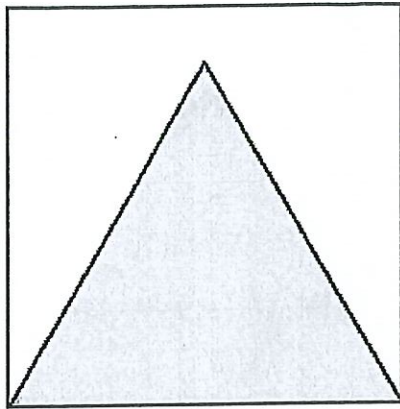
What is the number?

16	16	16	16
48			16



$$48 \div 3 = 16$$
$$48 + 16 = 64$$

- 3 Here is an equilateral triangle inside a square.



Not actual size

$$48 \div 3 = 16$$

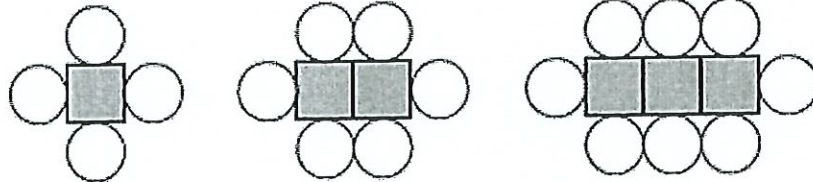
$$4 \times 16 = \underline{\underline{64 \text{ cm}}}$$

The perimeter of the triangle is 48 centimetres.

What is the perimeter of the **square**?

- 4 Here is a sequence of shapes.

Each time a square is added to a shape, two more circles are added.

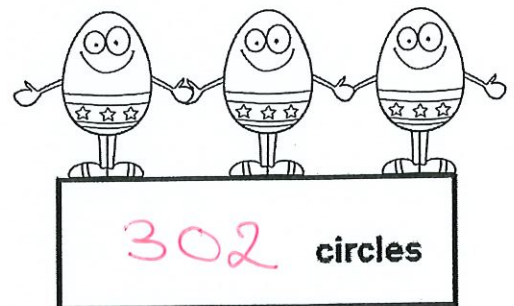


number of squares, s	1	2	3
number of circles, c	4	6	8

The sequence of shapes continues.

The formula for the sequence is $c = 2s + 2$

Calculate the number of circles when the number of squares in a shape is **150**.



How many squares are there in a shape that has **100** circles?

$$100 = 2s + 2$$

$$98 = 2s$$

$$98 \div 2 = \text{squares} = \underline{\underline{49 \text{ squares}}}$$

Day 10 - Arithmetic



1

$$-19 + 3,078 =$$

$$\begin{array}{r} 3078 \\ - 19 \\ \hline 3059 \end{array}$$

3,059



1 mark

2

$$3 \times 72 + 7 \times 72 =$$

$$\begin{array}{r} 72 \\ \times 3 \\ \hline 216 \end{array}$$

$$216 + 504 = 720$$

OR

$$10 \times 72$$

$$\begin{array}{r} 72 \\ \times 7 \\ \hline 504 \end{array}$$

720



1 mark

3

$$1.45 \times 7$$

$$\begin{array}{r} 1.45 \\ \times 7 \\ \hline 10.15 \\ 33 \end{array}$$

10.15



1 mark

4

$$\frac{4}{6} - \frac{1}{73} =$$

Find common denominator

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

$$\frac{146}{219} - \frac{3}{219} = \frac{143}{219}$$

$$\frac{143}{219}$$



1 mark

5

$$2,598 \times 75 =$$

$$\begin{array}{r} 2598 \\ \times 75 \\ \hline 12990 \\ 181860 \\ \hline 194850 \\ 1 \end{array}$$

$$194,850$$



1 mark

6

$$20.1 \div 1000 =$$

Move back 3 place value columns

$$0.0201$$

$$0.0201$$



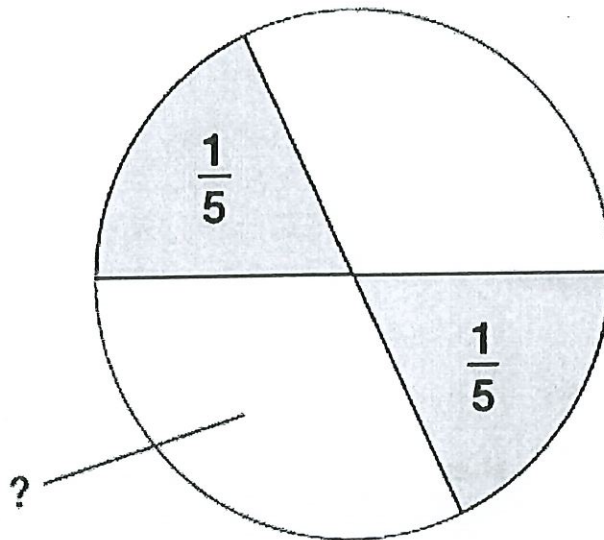
1 mark



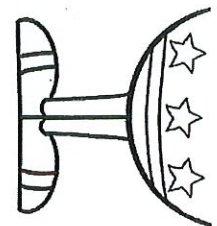
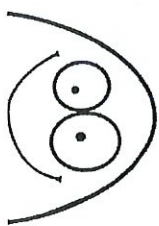
Day 10 - Reasoning

- 1 In this circle, each shaded part is $\frac{1}{5}$ of the area of the circle.

The two white parts have equal areas.



Not
drawn
accurately



What fraction of the circle is **one** of the white areas?

$$\frac{1}{5} = \frac{2}{10}$$

$$\text{so shaded areas} = \frac{4}{10}$$

$$\text{White areas altogether} = \frac{6}{10}$$

$$\text{So one white area} = \underline{\underline{\frac{3}{10}}}$$

- 2 Write in the missing number.

 $50 \div \boxed{20} = 2.5$

$$50 \div 2.5 = \infty$$

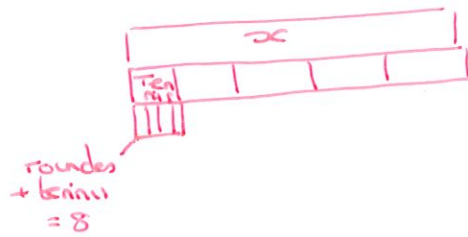
$$5 \div 2.5 = 2$$

$$\text{so } 50 \div 2.5 = 20$$

$$\begin{array}{c} 50 \\ \div \quad \triangle \quad \div \\ 2.5 \times \infty \end{array}$$

- 3 20% of the children in a sports club play tennis.

$$20\% = \frac{1}{5}$$



25% of the children who play tennis **also** play rounders.

$$= \frac{1}{20} \text{ of total children}$$

$$\text{If } \frac{1}{20} = 8 \text{ children}$$

$$\text{The total} = 20 \times 8 = 160$$



There are 8 children in the club who play **both** tennis and rounders.

How many children are there in the sports club **altogether**?

$$= \underline{\underline{160 \text{ children}}}$$

- 4 Debbie has a pack of cards numbered from 1 to 20

She picks four different number cards.



Exactly three of the four numbers are multiples of 5

→ 5, 10, 15, 20

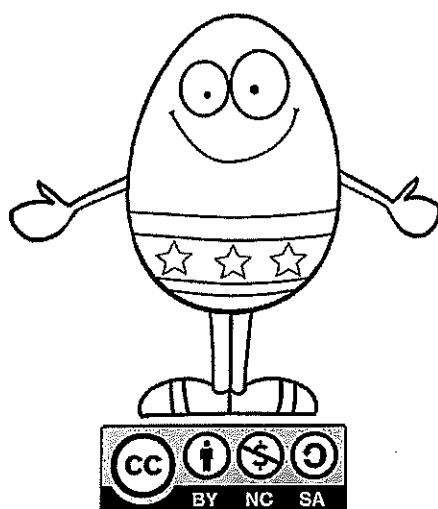
Exactly three of the four numbers are even numbers.

→ 2, 4, 6, 8, 10, 12, 14, 16, 18, 20

All four of the numbers add up to less than 40

Write what the numbers could be.





For source files visit: <http://bit.ly/2muSRIX>

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