Name: _____ 5-a-day Platinum

1st May

$0.46 = \frac{\square}{\square}$

$\frac{23}{50}$

$1.004 \times 100{,}000$

100400

A chocolate bar weighs 80g.

A special edition bar weighs an extra 15%.

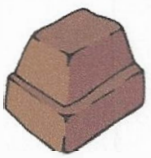
Work out how much the special edition bar weighs.

92g

10% = 8

5% = 4

15% = 12



Circle any of the numbers below that are prime

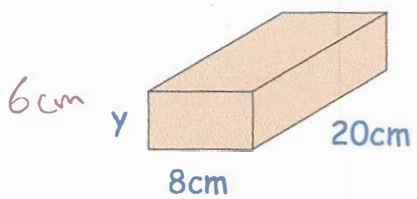
96 85 63 (79) 77

Work out the height of this cuboid, y.

8 x 20 = 160

960 ÷ 160 = 6

Volume: 960cm³



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Name: Ahmed

5-a-day

Platinum

2nd May

$5{,}119 \times 52$

5119
× 52
10238
255950
266188

266,188

20×3^2

$3^2 = 9$

180

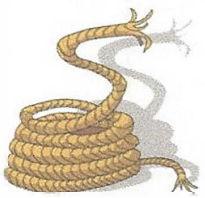
A piece of rope is 6.3 metres long.

Jenna cuts the rope into 5 pieces of equal length.

How long is each piece of rope?

$6.3 \div 5$

$= 1.26\text{m}$



The mean of the numbers on these four number cards is 10.

6 7 3 24

total = 10 × 4 = 40

Find the missing number.

In the equation below, w has a value of 8

$3w + 9 = 33$

Write three different equations where w has a value of 8

for example

$5w - 2 = 38$

$\frac{w}{2} + 3 = 7$ $w^2 = 64$

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Name: _____ 5-a-day Platinum

3rd May

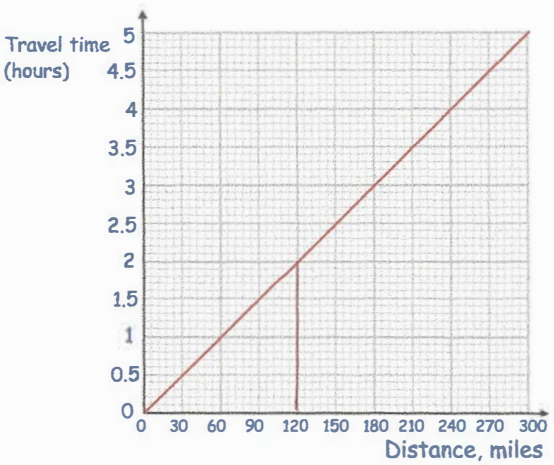
0.75×14

10.5

$\frac{19}{30} - \frac{1}{4}$

$\frac{38}{60} - \frac{15}{60} =$

$\frac{23}{60}$



How long does a 120 mile journey take?

2 hours

Carlos has spent 1 hour travelling.

What distance did he travel?

60 miles

Write down two fractions that is greater than $\frac{2}{5}$ but less than $\frac{1}{2}$

$\frac{9}{20}$, $\frac{21}{50}$

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Name: Answers 5-a-day Platinum

4th May

$2520 \div 105$

$$105\overline{)2520} = 24$$

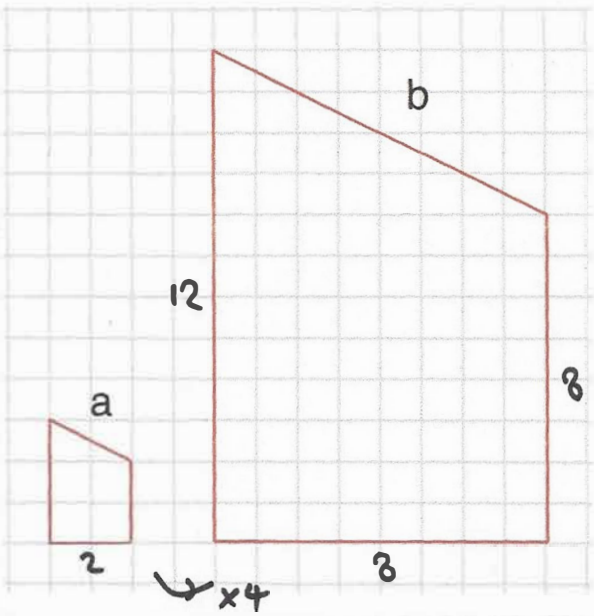
24

1.02×68

$$\begin{array}{r} 102 \\ \times\ 68 \\ \hline 816 \\ 6120 \\ \hline 6936 \end{array}$$

69.36

Here are two similar shapes



Write the ratio of side a to side b

1 : 4

Find the area of the largest shape

$\frac{8+12}{2} \times 8 = 80\text{cm}^2$

Rory spends $\frac{2}{5}$ of his pocket money on a cinema ticket that cost £3.65 and a drink that cost £2.75

How much pocket money does he have left?

£9.60

$3.65 + 2.75 = £6.40$

£6.40 is $\frac{2}{5}$

£3.20 is $\frac{1}{5}$

£9.60 is $\frac{3}{5}$

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Name: Answers 5-a-day Platinum

5th May

$\frac{7}{8} =$ 87.5 %

87.5 %

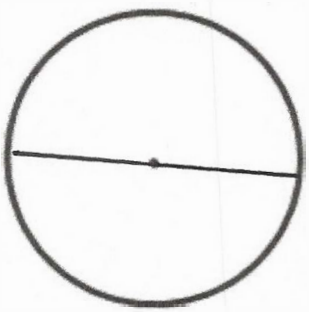
$80 - 72 \div 8$

9

71

Draw the diameter

(any straight line from side to side through the centre)



What is the value of w in this equation?

$5w - 12 = w + 26$

$4w = 38$

$w = 9.5$

In a sale, Harriett bought a t-shirt with a 10% discount.
The next week, Jenny bought the same t-shirt with a 50% discount.

Harriett paid £16 more for the t-shirt.

What was the original price? £40

40% - 16
10% - 4
100% - 40

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Name: _____ 5-a-day Platinum

6th May

$1\frac{1}{5} - \frac{1}{2}$

$\frac{6}{5} - \frac{1}{2} = \frac{12}{10} - \frac{5}{10}$

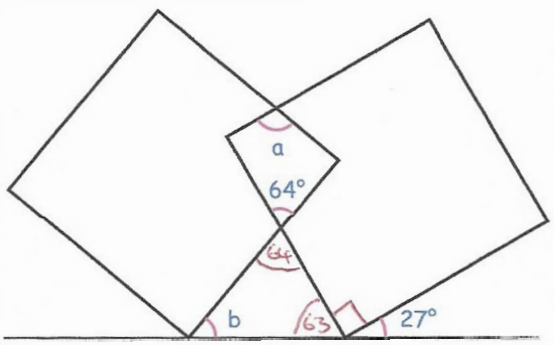
$\frac{7}{10}$

$\frac{3}{5} \times 290$

$290 \div 5 = 58$

$58 \times 3 = 174$

174



This diagram shows a straight line and two overlapping squares.

Find the size of angle a

$90 + 90 + 64 = 244$

$360 - 244 = 116$

$a = 116$

Find the size of angle b

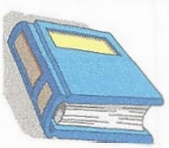
$63 + 64 = 127$

$180 - 127 = 53$

Charles Dickens was born in the year 1812.

Write 1812 in Roman numerals

MDCCCXII



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Name: _____ 5-a-day Platinum

7th May

$\frac{4}{9} \div 4$

$\frac{4}{9} \times \frac{1}{4} = \frac{4}{36}$

$\frac{1}{9}$

$1{,}118 \div 43$

$43 \overline{)1118}$ 26

26

There are 900 fans at the rugby match between Maidenhead and Dover.

40% of the fans support Dover.

How many fans support Dover?

360

40% of 900

= 360

Shown is a net of a cube.
Write 6 different numbers on the faces so that the numbers on the opposite faces of the cube have a product of 360.

	60		
1	2	360	180
	6		

In a season, Carlisle United

Win 35% of their matches

Draw $\frac{1}{3}$ of their matches

What fraction of their matches did Carlisle United lose?

$\frac{19}{60}$

$\frac{7}{20} + \frac{1}{3} = \frac{21}{60} + \frac{20}{60}$

$= \frac{41}{60}$

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Name: _____ 5-a-day Platinum

8th May

$15\% \times 880$

10% = 88
5% = 44
15% = 132

132

$$\begin{array}{r} 6789 \\ \times \quad 31 \\ \hline 6789 \\ 203670 \\ \hline 210459 \end{array}$$

210459

w = 16

Work out $9\mathbf{w} - 23$

9 x 16 = 144
144 - 23 = 121

For every 7 50p coins, Cain has 6 20p coins.

Cain has £18.00 in 20p coins.

How much money does Cain have altogether?

£70.50

1800 ÷ 20 = 90

90 ÷ 6 = 15

15 x 7 = 105 50ps

52.50 + 18 = £70.50

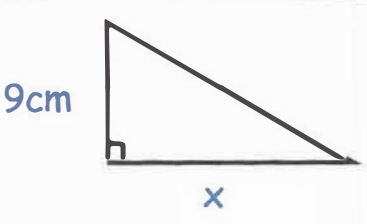
The area of this triangle is $63cm^2$

Find x

$\frac{9x}{2} = 63$

$9x = 126$

$x = 14$.



14cm

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Name: _____ 5-a-day Platinum

9th May

19×5.1

$$\begin{array}{r} 19 \\ \times\ 51 \\ \hline 19 \\ 950 \\ \hline 969 \end{array}$$

96.9

$1755 \div 65$

$$\begin{array}{r} 0027 \\ 65\overline{)1755} \end{array}$$

27

What number is halfway between −13 and 8?

−2.5

−13 [−2.5] 8

The perimeter of this shape is 86cm

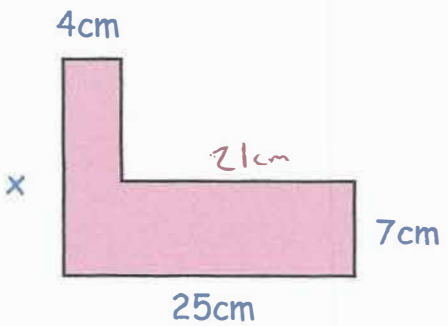
Find x

$25+21+4+7+x+x-7$

$2x+50=86$

$2x=36$

$x=18$ 18cm



Here are 4 expressions.

gh	g + h	g − h	$g^2 + h^2$
20	12	8	104

If g = 10 and h = 2 arrange the expressions in order, smallest to largest.

g−h, g+h, gh, g^2+h^2

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Name: _____ 5-a-day Platinum

10th May

$70 - 16 \times 2$

70 - 32

38

$\frac{3}{5} \div 2$

$\frac{3}{5} \times \frac{1}{2} = \frac{3}{10}$

$\frac{3}{10}$

Barry earns £1300 a month. He spends 40% of this money on rent and 13% on bills.

How much of the £1300 has he left?

£611

40% of 1300 = 520

13% of 1300 = 169

1300 - 520 - 169 = 611

In 2018, $\frac{17}{20}$ of adults in the UK owned a smart phone.

Write $\frac{17}{20}$ as a decimal

0·85

In 2015, $\frac{13}{20}$ of adults in the UK owned a smart phone.

Write $\frac{13}{20}$ as a decimal.

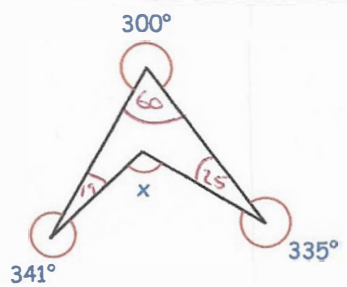
0·65

Find the size of angle x

60+25+19 = 104

360 - 104 = 256

360 - 256 = 104



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Name: _____ 5-a-day Platinum

11th May

$2{,}331 \div 37$

0063
37 | 2331

63

$37.5\% = \frac{\square}{\square}$

$\frac{3}{8}$

How many dots are there in Pattern 15?

3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23

25, 27, 29

31

Find the fraction halfway between

$\frac{2}{3}$ and $\frac{4}{5}$

$\frac{10}{15}$ $\frac{12}{15}$

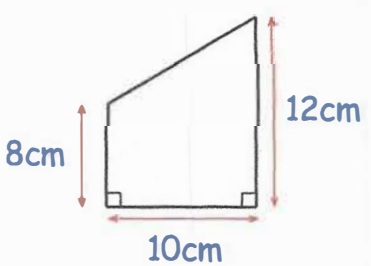
$\frac{11}{15}$

This is the plan of a garden.
On the plan, each 1 centimetre = 3 metres

Find the area of the actual garden.

$\frac{24+36}{2} = 30$

$30 \times 30 = 900$



$900m^2$

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Name: _____ 5-a-day Platinum

12th May

0.09×28

$$\begin{array}{r} 28 \\ \times \quad 9 \\ \hline 252 \end{array}$$

$\boxed{2.52}$

$$\begin{array}{r} 0088 \\ 33\overline{)2\,9^{29}0^{26}4} \end{array}$$

$\boxed{88}$

A theatre has 52 rows of seats.
Each row has 19 seats.

Tickets cost £13 each.
All tickets are sold for a show.

Estimate how much money is raised.

$50 \times 20 \times 10 = 10{,}000$

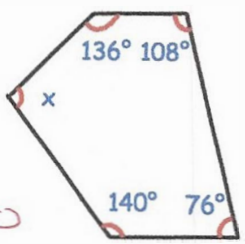
£10,000

Find x

$136 + 108 + 140 + 76 = 460$

$540 - 460 =$

80



$x = 80$

Burt is making cupcakes
He has made 20,000 cupcakes.
Burt places the cupcakes in boxes of 16.

How many boxes can he fill?

1250

$20000 \div 16 = 1250$

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Name: _____ 5-a-day Platinum

13th May

85% of 340

10% = 34
5% = 17
15% = 51

289

$\frac{6}{17} \div 3$

$\frac{6}{17} \times \frac{1}{3} = \frac{6}{51}$

$\frac{2}{17}$

400g of cheese costs £2.10

Work out the cost of **half a tonne** of cheese.

£2625

100g = 0.525
1kg = £5.25
500kg = 2625

Sinead has 4 cards.

There is a number on each card.

The mean of the 4 numbers on Sinead's cards is 12.

Work out the number on the 4th card.

7	13	9	19

7+13+9 = 29
48 - 29 = 19

In a bag there are red, green and purple counters.

$\frac{3}{8}$ of the counters are red.

$\frac{1}{6}$ of the counters are green.

What fraction of the counters are purple?

$\frac{3}{8} + \frac{1}{6} = \frac{13}{24}$

$1 - \frac{13}{24} = \frac{11}{24}$

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Name: _____ 5-a-day Platinum

14th May

$10.8 \div 30$

$$\begin{array}{r} 0\ 0.3\ 6 \\ 30\overline{)1\ 0.8\ 0} \end{array}$$

$\boxed{0.36}$

$2\frac{4}{5} - \frac{8}{9}$

$\frac{14}{5} - \frac{8}{9} = \frac{126}{45} - \frac{40}{45}$

$\boxed{\frac{86}{45}}$

Hannah is paid £280.

She spends 30% on her rent,
45% on food and bills,
and she saves the rest.

How much money does Hannah save?

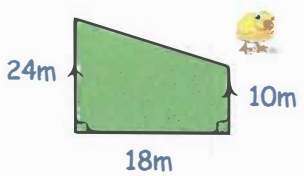
25% of 280 = 70

£70

Miss Taylor keeps chickens in this field.
Each chicken needs $3m^2$

What is the maximum number of chickens she can keep in the field?

24+10=34
34÷2=17
17×18= 306



306÷3= 102

102 chickens

Mr and Mrs Gould have 5 children.

The mean age of the children is 11 years.

Ben is 7 years old.
Chloe is 5 years old.
Max is 10 years old.
Rose is 12 years old.

How old is the fifth child, Rebecca?

7+5+10+12=34

55-34=21

21

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Name: _____ 5-a-day Platinum

15th May

$1\frac{1}{8} - \frac{1}{3}$

$\frac{9}{8} - \frac{1}{3} = \frac{27}{24} - \frac{8}{24}$

$\frac{19}{24}$

$29 \times 3\frac{1}{2}$

$29 \times \frac{7}{2}$

$\frac{203}{2} = 101.5$

Find the value of w in this equation

$$6w - 3 = 33$$

$6w = 36$

$w = 6$

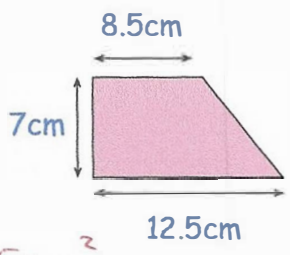
Here is a trapezium with a height of 7cm.

The parallel sides are 8.5cm and 12.5cm long.

Find the area of the trapezium

$8.5 + 12.5 = 21$

$21 \div 2 = 10.5$ 10.5×7



$= 73.5 cm^2$

George makes a sequence of numbers. He chooses a starting number and then adds equal amounts each time.

The fourth number in his sequence is −7
The seventh number in his sequence is 32

What is the second number in the sequence?

-46	-33	-20	-7	6	19	32

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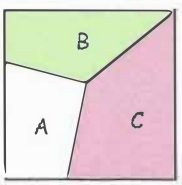
Name: _____ 5-a-day Platinum

16th May

$\begin{array}{r} 683 \\ \times \quad 77 \\ \hline 4781 \\ 47810 \\ \hline 52591 \end{array}$ 52591	95% of 280 5% = 14 266
Round 28.0746518 to 2 decimal places 28.07	Round 28.0746518 to 3 decimal places 28.075
A square is divided into 3 sections. Section A is $\frac{1}{4}$ of the area of the square Section B is $\frac{1}{3}$ of the area of the square What fraction of the square is section C?	 $\frac{1}{4} + \frac{1}{3} = \frac{7}{12}$ $1 - \frac{7}{12} = \frac{5}{12}$
A bag contains 20 white beads. Kate adds an equal number of white and pink beads. 70% of the beads in the bag are now white. How many white beads did Kate add?	15

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Name: _____ 5-a-day Platinum

17th May

$\frac{1}{7} \times \frac{1}{3}$

$\frac{1}{21}$

$$13 \overline{)3^{3}0^{4}1^{2}6} \quad 0232$$

232

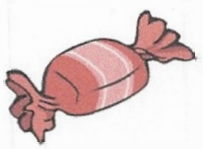
Rosie and Gabrielle share 60 sweets in the ratio 2:3.

How many sweets does Gabrielle get?

36

$60 \div 5 = 12$

$12 \times 3 = 36$



The population of a town was 14,000 in 2000.

By 2018, the population had decreased by 3%.

Work out the population in 2018.

$1\% = 140$

$3\% = 420$

$14{,}000 - 420 = 13580$

Justin and Chris each start with the same number.

Justin works out **four times the number.**

Chris works out **half of the number.**

The **sum** of their answers is 360

What was the number they started with?

$4x + \frac{1}{2}x = 360$

$4\frac{1}{2}x = 360$

$x = 80$

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Name: _____ 5-a-day Platinum

18th May

40% of 2,500

10% = 250

1000

150^2

150
×150
000
7500
15000
22500

22500

h = 13 **m** = 7

Work out the value of **7m** – **h**

49 - 13 = 36

Lucy bought a motorbike.

She paid a deposit of £1,499 and 48 payments of £275.

How much did Lucy pay in total?

£14,699

48 x 275
= 13200

13200 + 1499

14,699

The radius of a diameter is 14.75cm

What size is the radius of the circle?

7.375cm

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Name: _____ 5-a-day Platinum

19th May

2^4

16

$20 \div 100{,}000$

0·00002

Find four different prime numbers that have a sum of 35.

2, 3, 11, 19

Muhammad and Oliver have 20p coins and 50p coins.

For every 4 20p coins, Muhammad has 3 50p coins.

For every 1 20p coins, Oliver has 2 50p coins.

Muhammad and Oliver have the same number of 20p coins.

Oliver has 12 20p coins.

How much money do they have altogether?

£21·30

	M	O
20	12	12
50	9	24

20 × 24 = £4·80

50 × 23 = £16·50

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Name: Answers 5-a-day Platinum

20th May

$805 \div 35$

$$35\overline{)80^{10}5}$$ 23

$\boxed{23}$

$\frac{9}{10} + \frac{5}{8}$

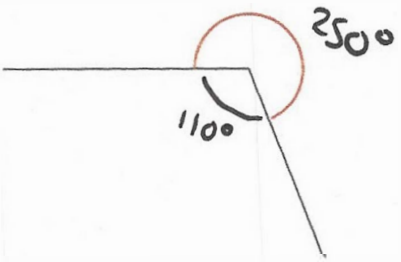
$\frac{72}{80} + \frac{50}{80} = \frac{122}{80}$

$= \frac{61}{40}$

$\boxed{1\frac{21}{40}}$

Measure this angle

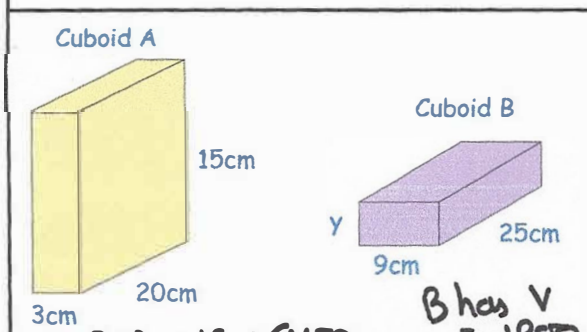
250°



At the end of a film, the year is given in Roman numerals as MMIV

Write the year MMIV in figures.

2004



$v = 3 \times 20 \times 15 = 900$

B has V = 1800

The volume of cuboid A is half the volume of cuboid B.

Find the height of cuboid B, y

$9 \times 25 = 225$

$1800 \div 225 = \underline{8\text{cm}}$

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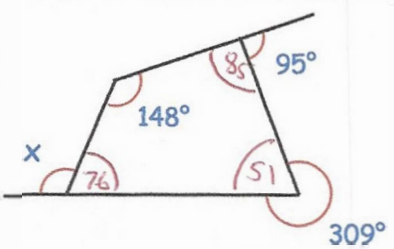
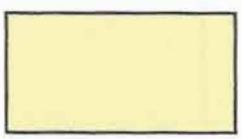
Name: _____ 5-a-day Platinum

21st May

55% of 840 50% = 420 5% = 42 462	130 − 15 × 5 130 − 75 55
Michael runs one kilometre at a speed of 5 metres per second. How long does it take Michael? Give your answer in minutes and seconds.	$\frac{1000\text{ m}}{5} = 200\text{ s}$ 3 mins 20 secs
Work out the size of angle x 180 − 76 = 104 x = 104	
The length of this rectangle is twice its width. The area of the rectangle is $162cm^2$ Work out the length of the rectangle 18cm	18cm  9cm

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Name: _____ 5-a-day Platinum

22nd May

$2{,}374 \times 15$

2374
× 15
11870
23740
35610

35610

$1{,}680 \div 28$

0060
28) 1680

60

There are 160 students in Year 7.

5% cycle to school.
60% walk to school
The rest are driven to school.

How many students are driven to school?

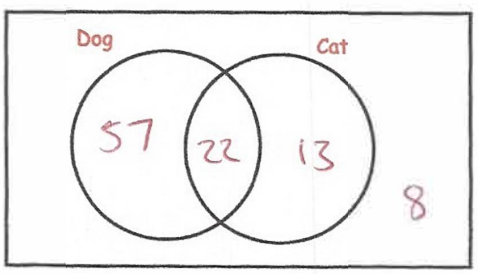
56

10% = 16
30% = 48
5% = 8
35% = 56

There are 100 children in Year 5.

22 children own both a cat and a dog.
8 children do not own a cat or a dog.
13 children own a cat but not a dog.

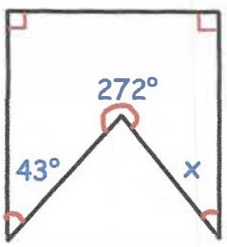
Complete the Venn diagram



Find the size of angle x

272 + 90 + 90 + 43 = 495

540 - 495 = 45



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Name: _____ 5-a-day Platinum

23rd May

$\frac{7}{20} - \frac{1}{3}$

$\frac{21}{60} - \frac{20}{60} = \frac{1}{60}$

$\frac{1}{6}$

10% of $\frac{1}{2}$

$10\% \text{ of } 0.5$

0.05

Ross has answered this question.

Has he made any mistakes?

Yes

$9 + 12 + 2 = 23$

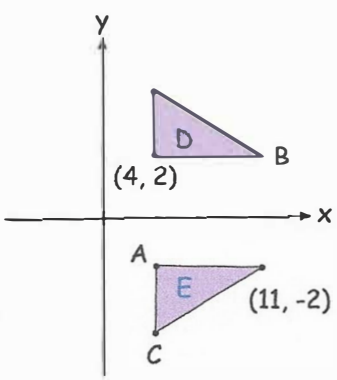
Work out $9 + 4 \times 3 + 2$

$= 13 \times 3 + 2$

$= 39 + 2$

$= 41$

Triangle E is a reflection of triangle D in the x-axis.



What are the coordinates of point B?

(11, 2)

Sophie says that the coordinates of point C are $(5, -8)$.

Could Sophie be right?

No, the x coordinate is 4

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Name: _____ 5-a-day Platinum

24th May

$5{,}152 \times 61$

$$\begin{array}{r} 5152 \\ \times\ 61 \\ \hline 5152 \\ \hline 309120 \end{array}$$

314272

$$\begin{array}{r} 0023 \\ 52\overline{)1196} \end{array}$$

$\boxed{23}$

a = 7, b = 9 and c = 10

Work out the value of

$\boxed{2a + b - 3c}$

$14 + 9 - 30 = -7$

Arrange in order from smallest to largest

$\frac{3}{5}$ $\frac{5}{8}$ $\frac{2}{3}$ $\frac{7}{20}$ $\frac{5}{9}$

$\frac{7}{20}, \frac{5}{9}, \frac{3}{5}, \frac{5}{8}, \frac{2}{3}$

$22{,}176 \div 84 = 264$

Explain how the this fact can be used to answer 84×265

$264 \times 84 = 22176$

$22176 + 84 = 22260$

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Name: _____ 5-a-day Platinum

25th May

$$\begin{array}{r} 372 \\ \times \quad 183 \\ \hline 1116 \\ 29760 \\ 37200 \\ \hline 68076 \end{array}$$

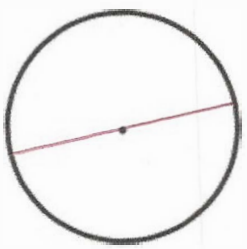
68076

$$3\frac{1}{10} - \frac{1}{2}$$

$\frac{31}{10} - \frac{5}{10} = \frac{26}{10}$

$\frac{13}{5} = 2.6$

Draw the diameter



Oscar took four tests.
Here are his results.

English test $\frac{17}{20}$ Science test $\frac{7}{8}$

Maths test $\frac{19}{25}$ French test $\frac{37}{50}$

In which test did Oscar get the highest percentage mark? Science

85%. 87.5%.

76%. 74%.

Find the value of **x** in the equation

$$4x - 7 = 11$$

$4x = 18$

$x = 4.5$

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Name: _____ 5-a-day Platinum

26th May

$8 \times \boxed{9.4} = 75.2$

$$\begin{array}{r} 0\ 9.4 \\ 8\overline{)7^{7}5^{3}.2} \end{array}$$

$\boxed{}$

$\frac{2}{5} \times \frac{10}{11}$

$\frac{20}{55} = \frac{4}{11}$

$\boxed{\frac{4}{11}}$

Rosa has 1 kilometre of rope.
She gives 75 metres of rope to Dave.
She gives 6100 centimetres of rope to Tia.

The rest of the rope is divided into 16 equal pieces.

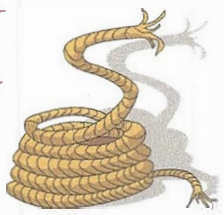
How long is each piece?

$1000 - 75 = 925$

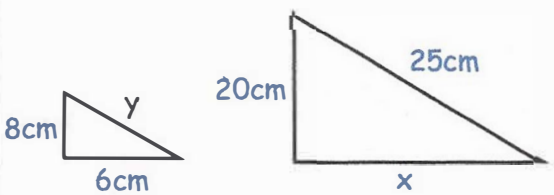
$925 - 61 = 864$

$864 \div 16 = 54$

54m



Here are two similar triangles



Find the size of x

$6 \times 2.5 = 15$

Find the size of y

$25 \div 2.5 = 10$

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Name: _____ 5-a-day Platinum

27th May

2136×82

2136
× 82
4272
170880
175152

175152

$648 \div 18$

036
18|6⁶4¹⁰8

36

Some people took a test and here are their results.

Grade	Frequency
A	10
B	15
C	13
D	5
E	2

Mrs Francis wants to draw a pie chart to show these results.

What size should the angle be for grade A?

10 × 8 = 80

What size should the angle be for grade E?

2 × 8 = 16

Emily has a box of red and yellow counters.

For 6 red counters, there are 4 yellow counters.

Emily has 24 more red counters than yellow counters.

How many counters does Emily have altogether?

R : Y
3 : 2
72 : 48

72
+48
120

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Name: _____ 5-a-day Platinum

28th May

$1\frac{1}{2} \times 11$

$\frac{3}{2} \times 11 = \frac{33}{2}$

$\frac{33}{2} = 16.5$

15% of 60

10% = 6

5% = 3

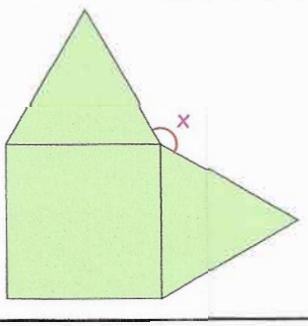
9

Here is a square and two equilateral triangles.

Find x

60+60+90 = 210

x = 150



A window cleaner charges

£3 call out charge plus
£0.75 per window

The window cleaner charges Mr.Jones £7.50

How many windows did the window cleaner clean?

7.50 − 3 = 4.50

4.50 ÷ 0.75 = 6

Lily gives $\frac{6}{7}$ of a cake to Leo.

Leo shares this piece of cake equally between Phoebe, Ruby and himself.

What fraction of the whole cake does Ruby receive?

$\frac{6}{7} \div 3$

$\frac{2}{7}$

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Name: _____ 5-a-day Platinum

29th May

$1\frac{5}{8} - \frac{3}{4}$

$\frac{13}{8} - \frac{6}{8} = \frac{7}{8}$

$\frac{7}{8}$

$\frac{5}{8} \div 3$

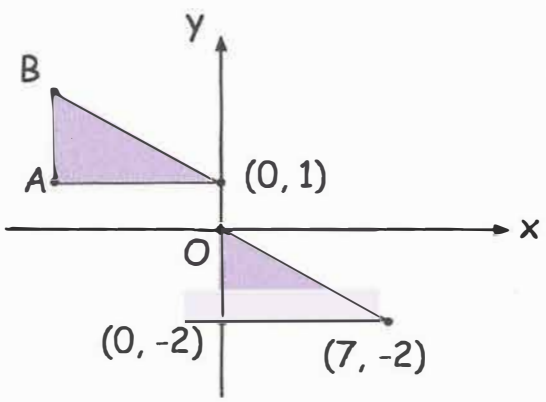
$\frac{5}{8} \times \frac{1}{3} = \frac{5}{24}$

Two numbers have a sum of 2
The same numbers have difference of 4

What are the two numbers?

$-1, 3$

Here are two identical triangles



What are the coordinates of point A?

$(-7, 1)$

What are the coordinates of point B?

$(-7, 3)$

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Name: _____ 5-a-day Platinum

30th May

$319 \div 11$

$$\begin{array}{r} 0\ 2\ 9 \\ 11\,\overline{)\,3^{3}1^{1}9\,9} \end{array}$$

$\boxed{29}$

$1.2 \div 10{,}000$

$\boxed{0.00012}$

Anthony has 30 shapes
26 of the shapes are green.
75% of red shapes are squares.
There are twice as many squares than circles.

	Red	Green
Square	3	17
Circle	1	9

There are 37 houses in a street.

Jessica says "there are three as many houses to the **left** of our house than to the **right** of our house."

How many houses are to the **left** of Jessica's house?

27

Find the value of *a*

$$2a - 17 = 31$$

$2a = 48$

$a = 24$

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Name: _____ 5-a-day Platinum

31st May

$0.056 \div 7$

0·008
7 | 0·056

0·008

$9 \times 2 - 1 \times 7$

18 - 7 = 11

11

Using 238 × 72 = 17,136

Work out the answer to 238 × 360

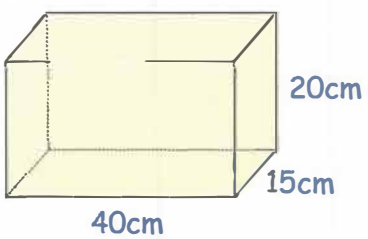
360 ÷ 72 = 5

17136
× 5
85680

Work out the volume of the cuboid

40 × 15 × 20 =

12000cm³



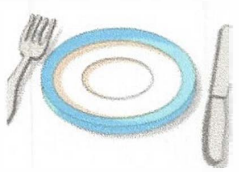
Gregory and his family go for a meal while on holiday in Florida.

They are told it is normal to tip 15%.

The meal costs $128.
Gregory tips $16, is this enough?

NO

10% = 12·8
5% = 6·4
19·2



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