Name: _____ Primary 5-a-day Platinum

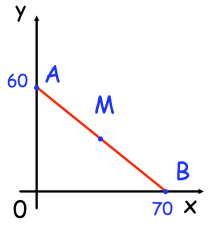
1st September

$\frac{5}{9} \times \frac{1}{4}$

521×128

Circle any fraction that is greater than $\frac{1}{3}$ but less than $\frac{1}{2}$

$\frac{4}{9}$ $\frac{3}{5}$ $\frac{13}{20}$ $\frac{5}{8}$ $\frac{7}{10}$



In this diagram M is an equal distance from A and B.

What are the coordinates of M?

A 10p coin has a diameter of 24.5mm

Caitlyn makes a straight line of 10p coins worth £20

How long is the line?
Give your answer in metres.

Name: _____ Primary 5-a-day Platinum

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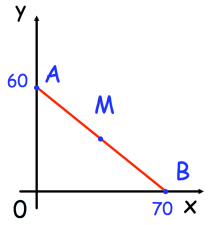

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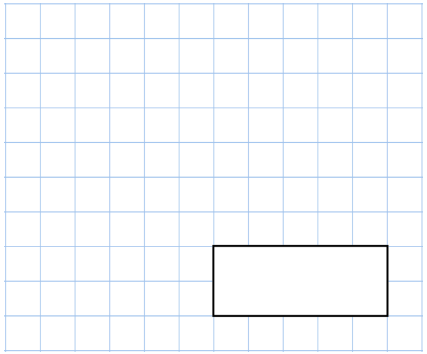
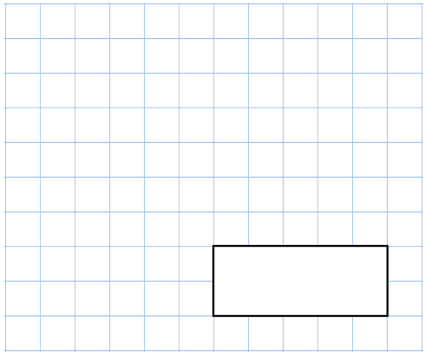
Name: _____ Primary 5-a-day Platinum

2nd September

$408 \div 17$



5^4



Work out the value of **y**

$5y + 13 = 28$

8 9 10 11 12 13 14 15 16

Barbara picks two odd number cards
Denise picks two even number cards

Barbara gives one of her cards to Denise
Denise gives one of her cards to Barbara

Barbara says "my cards are now both factors of 132."

Denise says "my cards are now both square numbers."

What numbers did they each start with?

Barbara ☐ ☐

Denise ☐ ☐

Name: _____ Primary 5-a-day Platinum

2nd September

$408 \div 17$

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Denise ☐ ☐

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Name: _____ Primary 5-a-day Platinum

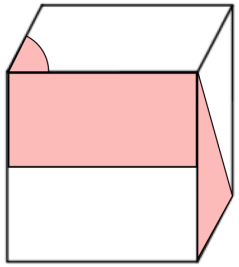
3rd September

1531×59

45% of 670

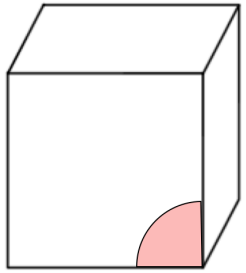
Draw a $200°$ angle

This cube has shapes drawn on three of its faces



The cube is turned to look like this.

Draw and shade the missing shapes



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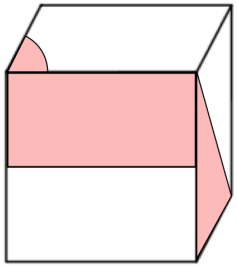

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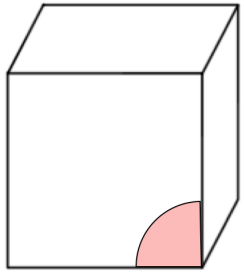

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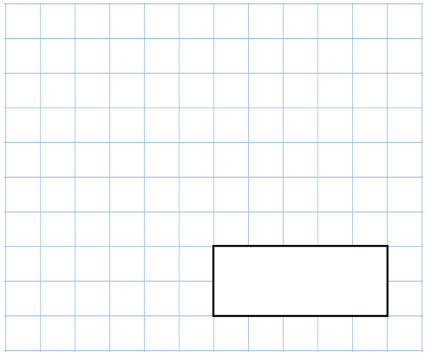
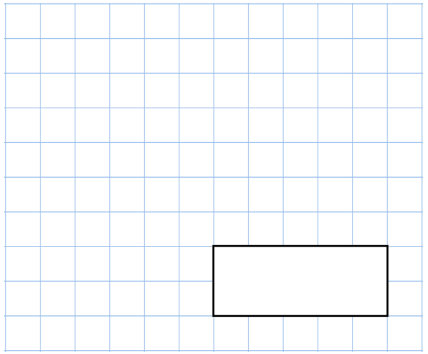
Name: _____ Primary 5-a-day Platinum

4th September

813×97



$\frac{3}{8} \div 2$



Work out the missing number

The first 3 multiples of ☐ add to 78

Using different numbers, fill in the missing numbers below

The first ☐ multiples of ☐ add to 78

A toy grows when placed in a bucket of water.

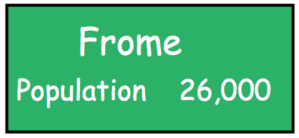
The toy doubles in size every minute.

After 10 minutes the toy had filled the bucket

After how many minutes would the toy half-fill the bucket?

This sign is correct to the nearest thousand.

What is the lowest possible number of people that live in Frome?



Name: _____ Primary 5-a-day Platinum

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Frome
Population 26,000

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Name: _____ Primary 5-a-day Platinum

5th September

$\frac{3}{8} + \frac{2}{5}$

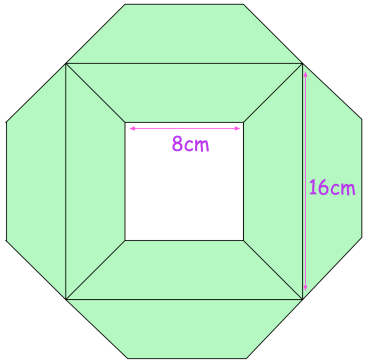
8% of 1,200

Beth is making a drink by mixing orange juice and lemonade in the ratio 1:3.

Beth uses 180ml of lemonade.

How much orange juice does Beth use?

A logo is made from a square and 8 identical trapeziums.



Find the area of one trapezium

Find the total area of the logo.

Name: _____ Primary 5-a-day Platinum

5th September

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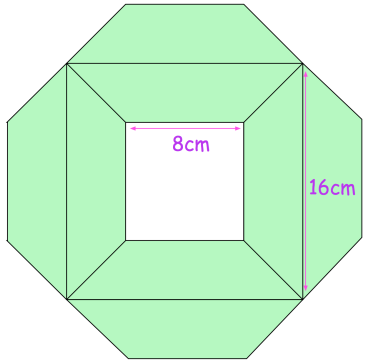

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Find the total area of the logo.

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Name: _____ Primary 5-a-day Platinum

6th September

0.7×600

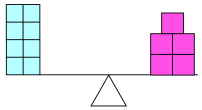
$55\% \times 4{,}000$

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

Write the year MMIX in figures

w = 12

Work out $4\mathbf{w} - 8$



8 small blocks have the same mass as 5 large blocks.
The mass of one small block is 4.5kg

Find the mass of one large block

Name: _____ Primary 5-a-day Platinum

6th September

0.7 × 600

55% × 4,000

The End
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Name: _____ Primary 5-a-day Platinum

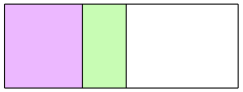
7th September

$3\frac{1}{2} \times 16$

$50 - 2^3 \times 3$

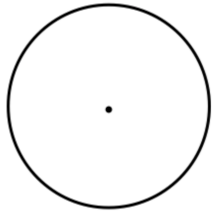
In this rectangle, $\frac{2}{5}$ is shaded purple

$\frac{1}{6}$ is shaded green.



What fraction of the rectangle is not shaded?

Draw the radius on this circle



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

Explain how the this fact can be used to answer 84×263

Name: _____ Primary 5-a-day Platinum

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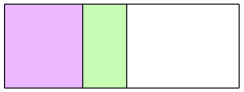

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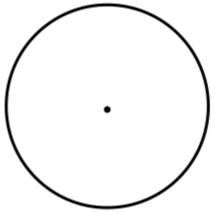

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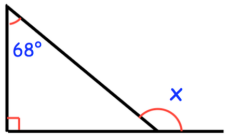
Name: _____ Primary 5-a-day Platinum

8th September

$15\overline{)1665}$

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

Find the size of the angle labeled x



Lindsey is planting daffodil bulbs

For every 5 bulbs Lindsey planted, only 3 bulbs grew into daffodils

Altogether 60 daffodils grew

How many bulbs did Lindsey plant?

The numbers in this sequence increase by the same amount each time.

Write the missing numbers

$\square$ 1 $1\frac{3}{8}$ $1\frac{3}{4}$ $\square$

Name: _____ Primary 5-a-day Platinum

8th September

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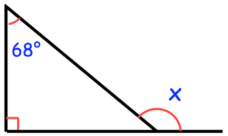

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Name: _____ Primary 5-a-day Platinum

9th September

$72 + 28 \div 2$

$$\begin{array}{r} 3\ 4\ 0\ 2 \\ \times\quad\ 5\ 8 \\ \hline \end{array}$$

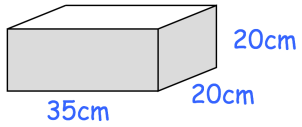
a and ***b*** stand for two numbers.

Double ***a*** equals a third of ***b***

Write numbers to complete the sentence

When a is ☐ then b is ☐

Every second, 200cm^3 of water comes out of a tap into the tank.



How long does take to fill the tank from empty?

The ratio of adults to children at a cricket match is 7:3.

There are 110 people at the match.

How many children attended the cricket match?

Name: _____ Primary 5-a-day Platinum

9th September

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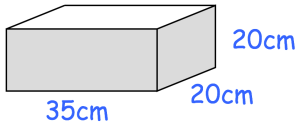

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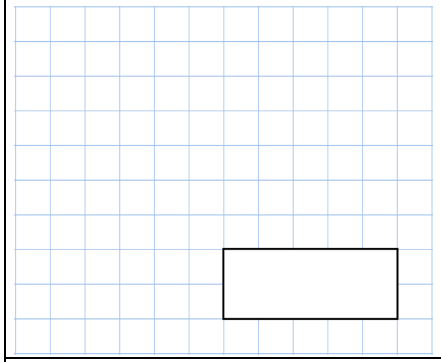
Name: _____ Primary 5-a-day Platinum

10th September

$\frac{2}{5} \times \frac{15}{16}$



$$\begin{array}{r} 3\ 7\ 4 \\ \times\quad 2\ 2\ 6 \\ \hline \end{array}$$

Ricky goes on holiday for 4 days.

This table shows how far he walked in the first three days.

Monday	Tuesday	Wednesday
7 miles	5 miles	11 miles

Ricky says that "my mean distance walked for the first three days is less than 8 miles"

Show Ricky is correct.

Thursday is his last day on holiday.
Ricky wants to increase his mean to 9 miles.
How far must Ricky walk on Thursday?

Write MLVI in figures

Name: _____ Primary 5-a-day Platinum

10th September

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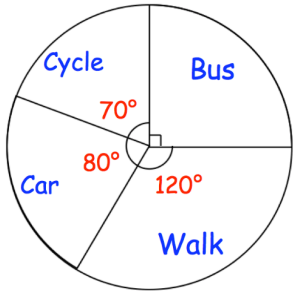
Name: _____ Primary 5-a-day Platinum

11th September

$\begin{array}{r} 52950 \\ 19883 \\ +\ 19859 \\ \hline \end{array}$	55% of 720
The pie chart shows how a group of 72 students travel to school. 	How many students walk to school? What fraction of the students cycle?
The formula F = 1.8C + 32 can be used to convert between Celsius and Fahrenheit. Work out C when F = −4	

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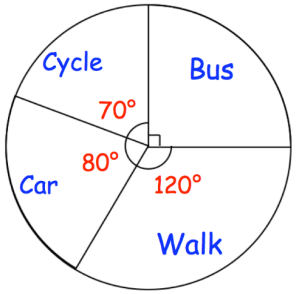
The pie chart shows how a group of 72 students travel to school. 	How many students walk to school? What fraction of the students cycle?
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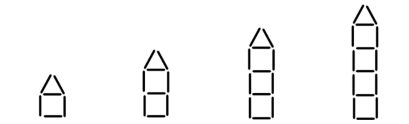
Name: _____ Primary 5-a-day Platinum

12th September

$\frac{5}{12} + \frac{2}{5}$

$30\overline{)1350}$

Here is some patterns made from sticks

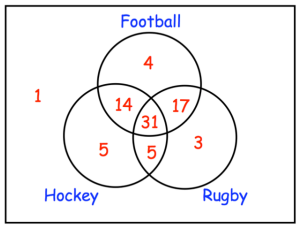


How many sticks are in Pattern 5?

Which Pattern uses 180 sticks?

80 children were asked what sports they played.

How many played football?



Name: _____ Primary 5-a-day Platinum

12th September

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Pattern 1 Pattern 2 Pattern 3 Pattern 4

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Football 4 1 14 17 31 5 5 3 Hockey Rugby

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Name: _____ Primary 5-a-day Platinum

13th September

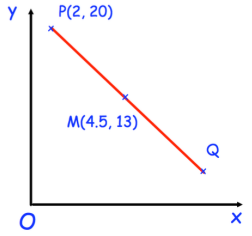
$1\frac{9}{10} - 1\frac{1}{8}$

$\frac{1}{3} =$ ____ %

%

M is the midpoint of the line PQ.

Find the coordinates of Q.



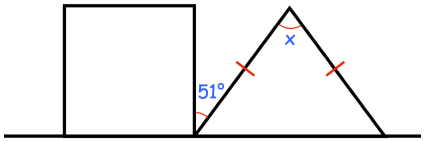
Katie chooses a prime number.
She multiples it by 200 and then rounds it to the nearest thousand.

Her answer is 3,000.

Write down all the possible prime numbers Katie could have chosen.

Shown is a square and an isosceles triangle on a straight line.

Find x



Name: _____ Primary 5-a-day Platinum

13th September

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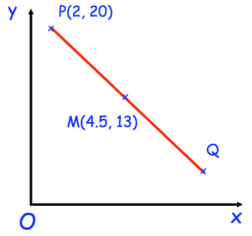

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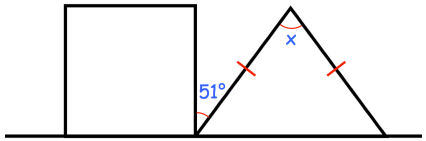

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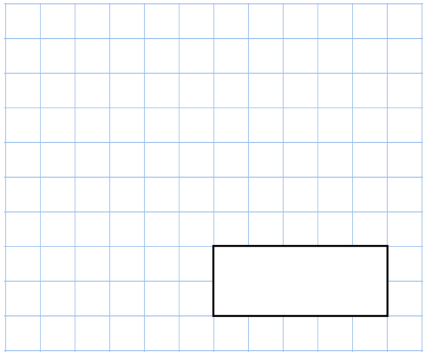
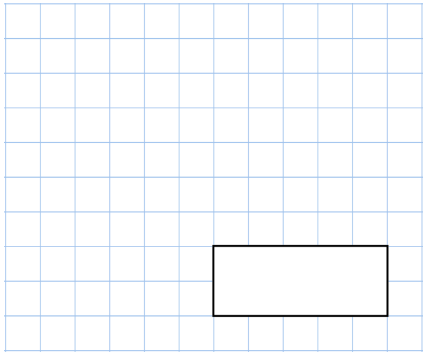
Name: _____ Primary 5-a-day Platinum

14th September

5% of 30



$\frac{15}{16} \div 3$



Solve the equation

$$3y + 2 = 35$$

Harry and Gita each choose a number.

Harry's number is six times bigger than Gita's number.

The difference between the numbers is 60

What number did Harry choose?

a is an even number
b is an odd number

Look at these expressions and decide if they are odd or even

	even	odd
a + b	☐	☐
5a	☐	☐
$b^2 + a$	☐	☐

Name: _____ Primary 5-a-day Platinum

14th September

5% of 30

$\frac{15}{16} \div 3$

Solve the equation

$$3y + 2 = 35$$

Harry and Gita each choose a number.

Harry's number is six times bigger than Gita's number.

The difference between the numbers is 60

What number did Harry choose?

a is an even number
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	even	odd
a + b	☐	☐
5a	☐	☐
$b^2 + a$	☐	☐

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Name: _____ Primary 5-a-day Platinum

15th September

0.3×600

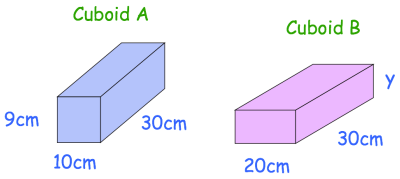
$85\% \times 300$

Arrange the following in order from smallest to largest

$0.13 \quad \frac{3}{20} \quad 12\% \quad \frac{1}{10} \quad 0.09$

Cuboid A and Cuboid B have the same volume.

Find y



Lisa and Anna each start with the same number.

Lisa rounds the number to the nearest hundred.
Anna rounds the number to the nearest thousand.

Anna's answer is double Lisa's answer.

Explain how this can be.

Name: _____ Primary 5-a-day Platinum

15th September

0.3×600

$85\% \times 300$

Arrange the following in order from smallest to largest

$0.13 \quad \frac{3}{20} \quad 12\% \quad \frac{1}{10} \quad 0.09$

Cuboid A and Cuboid B have the same volume.

Find y

Cuboid A
9cm
30cm
10cm
Cuboid B
y
30cm
20cm

Lisa and Anna each start with the same number.

Lisa rounds the number to the nearest hundred.
Anna rounds the number to the nearest thousand.

Anna's answer is double Lisa's answer.

Explain how this can be.

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Name: _____ Primary 5-a-day Platinum

16th September

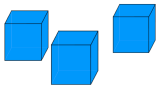
$2\frac{1}{2} \times 29$

$50 - 5 \times 2^2$

Henrik has 90 centimetre cubes.

He wants to make a cube with edges that are 5cm long.

How many more centimetre cubes does he need?



$10w + 4$

When **w = 0.1**, the value of **10w + 4** is a prime number because $10 \times 0.1 + 4 = 5$

Write a value for w so that **10w + 4** is a cube number

20 £1 coins have a mass of 175 grams

Find the mass of 13 £1 coins.

Name: _____ Primary 5-a-day Platinum

16th September

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Name: _____ Primary 5-a-day Platinum

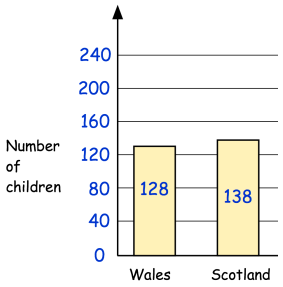
17th September

$20\% \text{ of } 5{,}500$

$1258 \div 34$

The children in year 6 were asked if they had visited Wales, Scotland or both.

The bar chart shows the results.



Altogether there are 179 children in Year 6

How many children visited **both** Wales and Scotland?

Find the missing number

Was £50

Reduced by ____ %

Now £35

Name: _____ Primary 5-a-day Platinum

17th September

$20\% \text{ of } 5{,}500$

$1258 \div 34$

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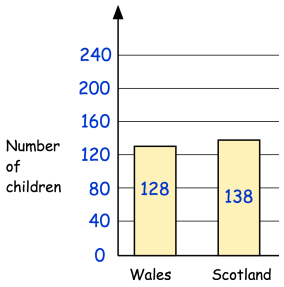

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Name: _____ Primary 5-a-day Platinum

18th September

1.096×6

$\frac{21}{100} \div 7$

The numbers in this sequence increase by the same amount each time.

$\square$ 1 $1\frac{7}{8}$ $2\frac{3}{4}$ $\square$

One gram of copper costs $0.74.

What is the cost of a **quarter a tonne** of copper?

A football pitch is 70 metres wide and has an area of 7,350m^2

A rugby pitch is 15 metres longer than the football pitch and is 68 metres wide.

Work out the area of the rugby pitch.

Name: _____ Primary 5-a-day Platinum

18th September

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Name: _____ Primary 5-a-day Platinum

19th September

$\frac{1}{7} \times \frac{1}{6}$

$5{,}011{,}912 - 1{,}562{,}007$

Joseph has a recipe for Bolognese Sauce

Bolognese Sauce

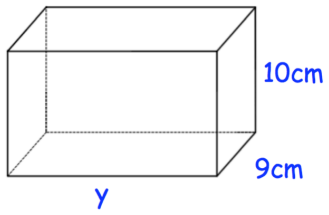
Minced Beef	500 g
Chopped Tomatoes	750 g
Mushrooms	40 g
Chicken Stock	150 ml

He only has 400g of minced beef.

How much of the other ingredients should he use?

The volume of the cuboid is 2,700cm^3

Find y



Name: _____ Primary 5-a-day Platinum

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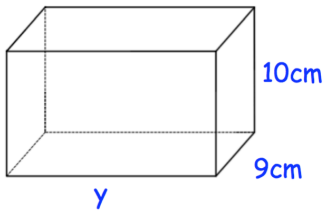

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Name: _____ Primary 5-a-day Platinum

20th September

95% of 480

$4\overline{)7224}$

Last year four houses in a street sold for a mean price of £200,000.

The first house sold for £170,000
The second house sold for £205,000
The third house sold for £192,000

How much did the fourth house sell for?

Joshua is twice as old as Max.

The sum of their ages is 57.

How old is each person?

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 £12 more for the t-shirt.

What was the original price?

Name: _____ Primary 5-a-day Platinum

20th September

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Name: _____ Primary 5-a-day Platinum

21st September

$28 - 8 \times 3$

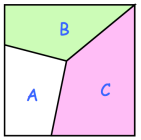
$15 \times 1\frac{2}{3}$

A square is divided into 3 sections.

Section A is $\frac{1}{5}$ 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?



Oliver and Ella share 36 sweets in the ratio 1:11

How many sweets does Oliver get?

Find the value of w in this equation

$$6w - 3 = w + 17$$

Name: _____ Primary 5-a-day Platinum

21st September

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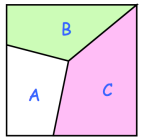

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Name: _____ Primary 5-a-day Platinum

22nd September

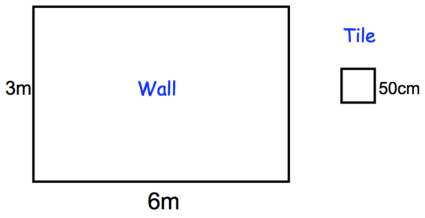
807×119

$75 \times 24 = \square^2 + 900$

Round 728.35648 to 2 decimal places

Round 728.35648 to 3 decimal places

Jenson is tiling his bathroom wall.
The wall is 6 metres by 3 metres.
Each square tile is 50cm by 50cm.
Each tile costs £3.50



Calculate the cost of tiling the wall.

Name: _____ Primary 5-a-day Platinum

22nd September

807×119

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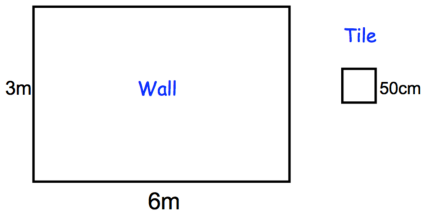

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Name: _____ Primary 5-a-day Platinum

23rd September

$12.5\% = \frac{\square}{\square}$

35% of 90

The radius of a circle is 14.75cm

What size is the diameter of the circle?

Harry and Jack have 20p coins and 50p coins.

For every 7 20p coins, Harry has 3 50p coins.

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

Harry and Jack have the same number of 50p coins.

Jack has 6 20p coins.

How much money do they have altogether?

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Name: _____ Primary 5-a-day Platinum

24th September

$1{,}285 \times 72$

$115 \times 3 - 2 \times 57$

Circle the smallest fraction

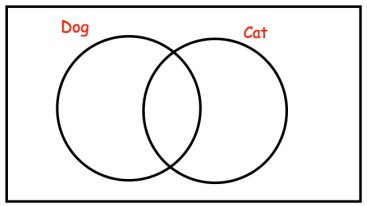
$\frac{3}{5}$ $\frac{5}{8}$ $\frac{2}{3}$ $\frac{7}{20}$ $\frac{5}{9}$

Draw a 195° angle

There are 100 children in Year 5.

31 children own both a cat and a dog.
12 children do not own a cat or a dog.
17 children own a cat but not a dog.

Complete the Venn diagram



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24th September

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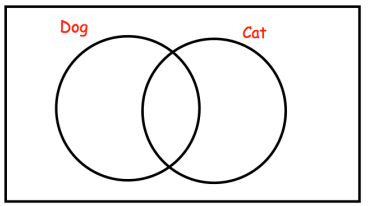

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Name: _____ Primary 5-a-day Platinum

25th September

$943 \div 23$

$\frac{2}{9} \times \frac{3}{10}$

Miss Baker made some cupcakes.

The colours of the cupcakes are:

Colour	Frequency
Blue	25
Green	14
Red	21

Miss Baker wants to draw a pie chart to show these results.

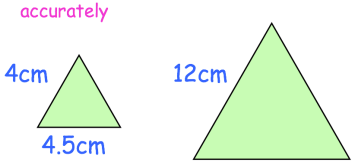
What size should the angle be for Blue?

What size should the angle be for Red?

Shown are two similar triangles.

Find x

Not drawn accurately



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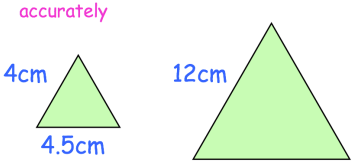

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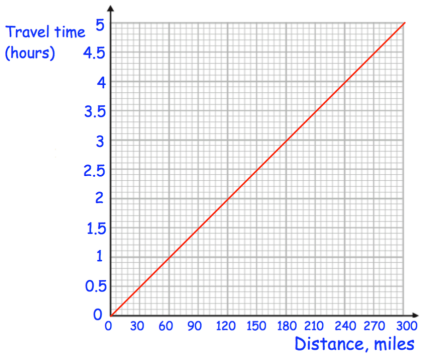
Name: _____ Primary 5-a-day Platinum

26th September

$$\begin{array}{r} 5\ 0\ 2\ 0\ 6 \\ -\ 3\ 9\ 4\ 1\ 0 \\ \hline \end{array}$$

$\frac{5}{8} =$ ____ %

____ %



How long does a 180 mile journey take?

Carlos has spent 4.5 hours travelling.

What distance did he travel?

Write down two fractions that is greater than $\frac{3}{8}$ but less than $\frac{1}{2}$

Name: _____ Primary 5-a-day Platinum

26th September

$$\begin{array}{r} 5\ 0\ 2\ 0\ 6 \\ -\ 3\ 9\ 4\ 1\ 0 \\ \hline \end{array}$$

$\frac{5}{8} =$ ____ %

____ %

Travel time (hours)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
0 30 60 90 120 150 180 210 240 270 300
Distance, miles

How long does a 180 mile journey take?

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Name: _____ Primary 5-a-day Platinum

27th September

$1.7 \div 5$

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

Use these signs to make the calculation work.

+ − × ÷

20 □ 4 □ 6 □ 2 = 8

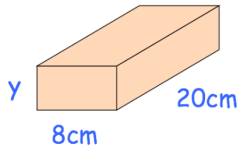
40% of the apples in a bag are red.
The rest of the apples are green.

There are 16 red apples in the bag.

How many apples are in the bag?

Work out the height of this cuboid, y.

Volume: 960cm³



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Volume: 960cm³

y
20cm
8cm

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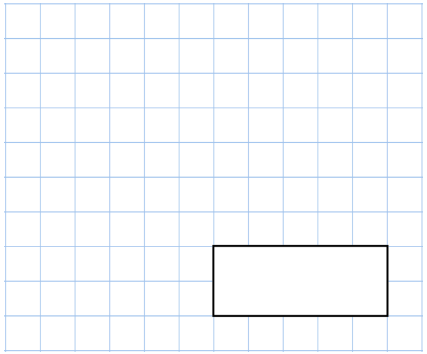
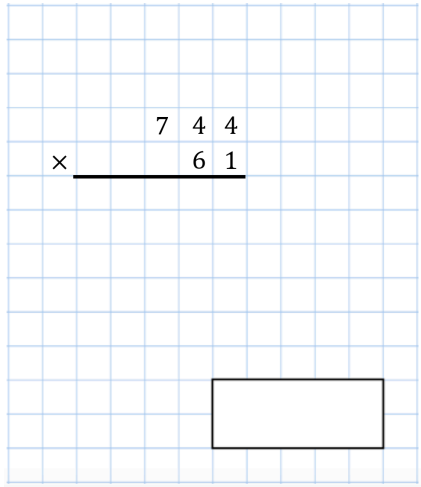
Name: _____ Primary 5-a-day Platinum

28th September

$24 \times 1\frac{2}{3}$





Eddy had some money.

He spent £2.75 on a coffee.
He spent £1.00 on a packet of crisps.

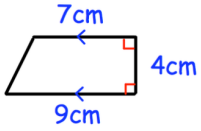
Eddy has **two-thirds** of his money left.

How much money did Eddy start with?

$6{,}422 \div 19 = 338$

Explain how you can use this fact to find the answer to 18×338

Work out the area of the trapezium



Name: _____ Primary 5-a-day Platinum

28th September

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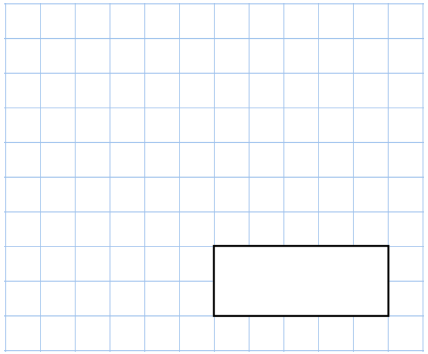

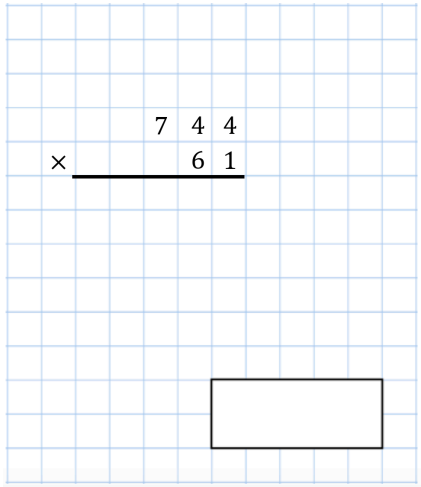

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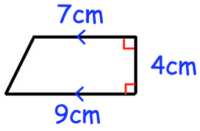

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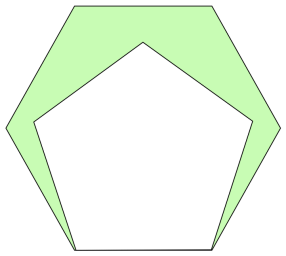
Name: _____ Primary 5-a-day Platinum

29th September

13% of 800	Simplify $\frac{168}{216}$
A factory makes 20,000 bottles of lemonade. Each bottle contains 600 millilitres. How many litres of lemonade does the factory make?	
Shannon thinks of a number. She **multiples the number by 6** and then **subtracts 70** from the result. Her answer equals the number she started with.	What was the number Shannon started with?
Here is a regular pentagon inside of a regular hexagon. The perimeter of the pentagon is 1.2m What is the perimeter of the hexagon?	

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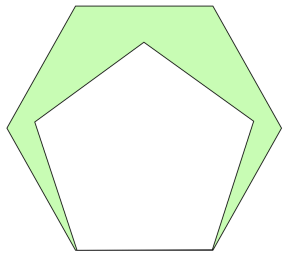
Here is a regular pentagon inside of a regular hexagon. The perimeter of the pentagon is 1.2m What is the perimeter of the hexagon?	

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Name: _____ Primary 5-a-day Platinum

30th September

$146 \div 5$

$8^3 - 7^2$

Work out the lowest common multiple (LCM) of 20 and 24

Kenny and Benny go for a meal.

Kenny's meal costs £8.40 and his drink costs £2.80.

Benny's meal costs £9.60 and his drink cost £3.50.

They have a voucher that gives 35% off their meals, but **not** the drinks.

They also pay a £5 tip.

Kenny and Benny share the cost equally. How much does each person pay?

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