

Name:	
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HEROES TUITION

October Homework Maths Platinum

Please return this booklet to you Maths teacher by the end of the month. All answers will be sent to your parents or guardians, so please ensure it is marked before handing it in.







Primary 5-a-day Platinum Name: 1st October $10^{!}$ 6 5 3 5 1 0 Work out the highest common factor (HCF) of 24 and 36



Charlie's password is made up of six **different** digits.

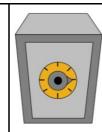
He remembers it as three 2-digit numbers.

The first 2-digits is a square number between 10 and 30.

The second 2-digits is a prime number between 30 and 40.

The third 2-digits is a cube number between 10-99

List all his possible passwords



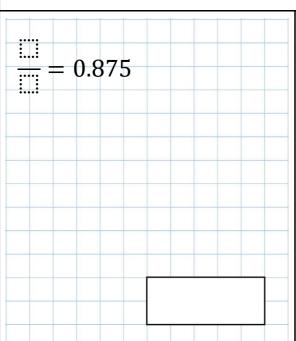
Name:	Primary 5-a-day	Platinum
2nd October		
$+1,600 = 50^{!}$	7,014 ÷ 1	14



In 2018, a Zoo had 520,000 visitors.	
30% of the people visited in July. 35% of the people visited in August.	
How many people visited the Zoo in the rest of the year?	
In this circle, each shaded part is $\frac{2}{5}$ of the area of the circle. The two white parts have the same area. What fraction of the circle is one of the white areas?	
Find the size of angle y	75° 32°



3rd October



 71×254

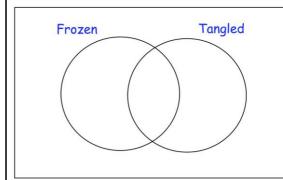
There are 80 children in Year 6.

16 children have watched both the films Frozen and Tangled.

28 children have watched Tangled.

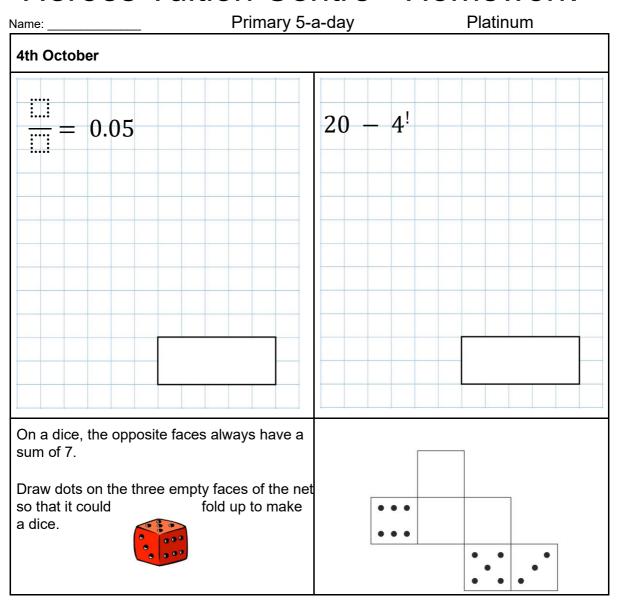
Twice as many children have watched Frozen than Tangled.

How many children have not watched Frozen or Tangled?





	1/1/4
What percentage of 20 is 9?	





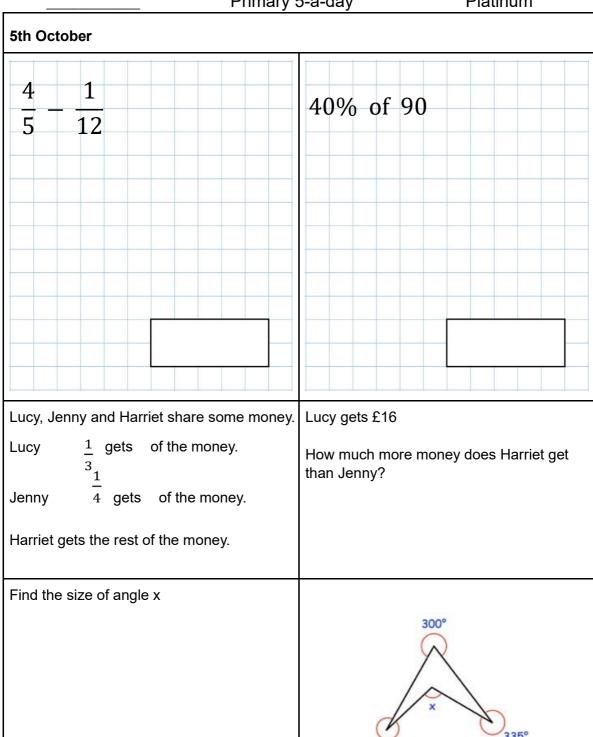
			M.
Play area $\frac{3}{5}$ diagram shows a park	Tennis court $\frac{1}{4}$ Picnic area	This	Work out the fraction of the park that is the picnic area.
! Work out 10% of !			





Primary 5-a-day

Platinum



Name: _____

Primary 5-a-day

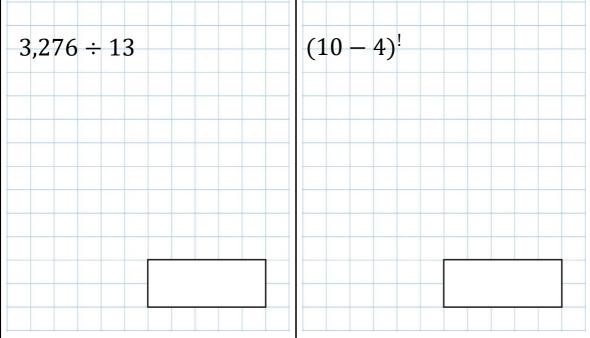
Platinum



729 is both a square number and a cube number.

Find two other numbers that are both square numbers and cube numbers





What is the smallest possible number Timothy could be thinking of?

Name: _____

Primary 5-a-day

Platinum



What is the largest possible number Timothy could be thinking of?

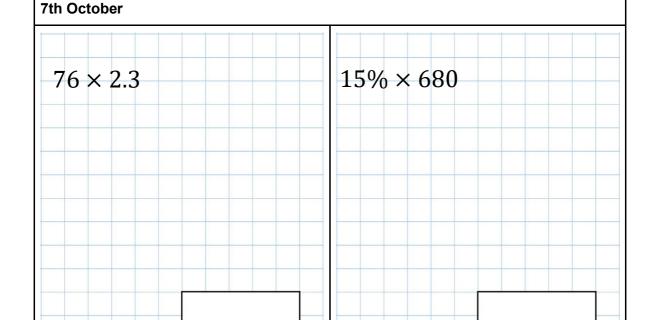
I am thinking of a whole number. Rounded to the nearest 100 it is 600.



For every 5 50p coins, Laura has 4 20p coins.

Laura has £56.00 in 20p coins.

How much money does Laura have altogether?



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Here	ie	2	regular	hexagon
LICIC	IJ	а	regulai	ncagon

Find the size of each angle



Chloe is building a fence for her garden.

The fence costs £9.25 per metre to build. The fence is 16 metres long.

Work out the total cost of building the fence





Work out the distance from Belfast to Ballymena.

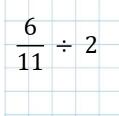
Name: ____

Primary 5-a-day

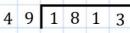
Platinum



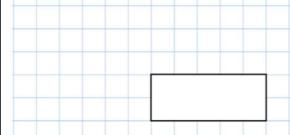
8th October











$$w + 8 = 13$$

Work out the value of \mathbf{w}

This graph can be used to change between miles and kilometres.

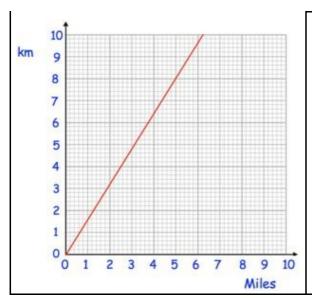
Change 10 miles into kilometres

Name: _____

Primary 5-a-day

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Change 40 kilometres into miles

oth October 9!							
	×	1	6	5 2			
here are 1625 sweets in a tub. group of friends share the sweets. ach person gets 65 sweets. ow many friends are there?						₩	

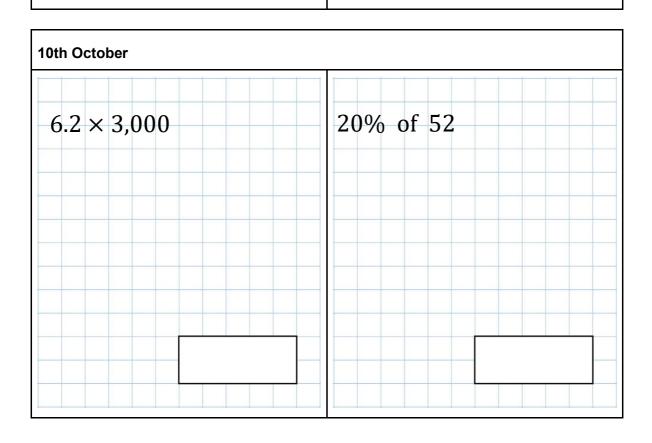
Name: _____

Primary 5-a-day

Platinum



	W ,
Write 8 as a decimal	
For every three 50p coins, Cain has two 20p coins. Cain has £40 in 20p coins. How much money does Cain have	
altogether?	

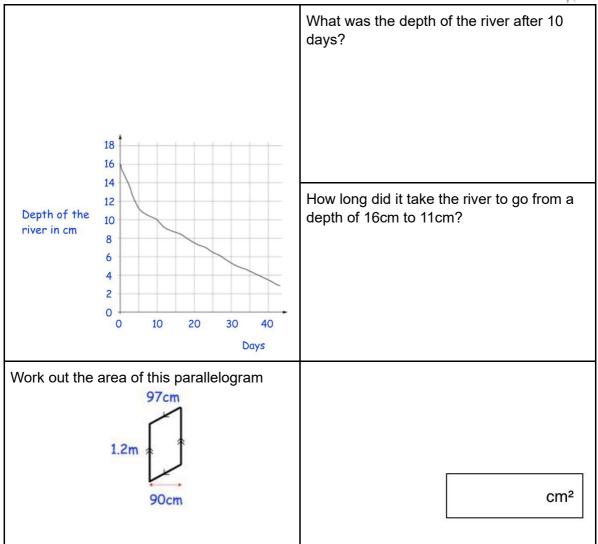


Name: _____

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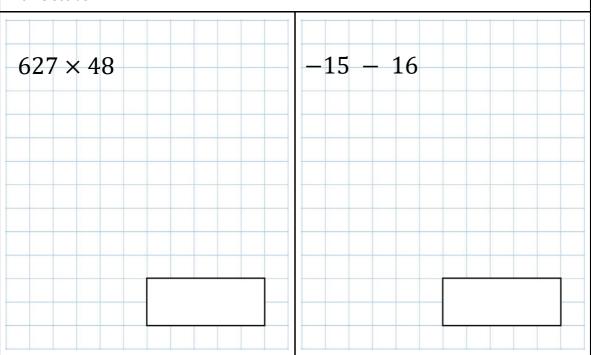
Name: _____

Primary 5-a-day

Platinum

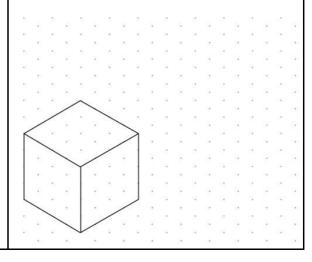


11th October



Here is a drawing of a cube on an isometric grid.

Draw a cuboid that has the **same** volume of the cube.



Name:	Primary 5	-a-day	Platinum	M
Here are five number cards. The mean of the numbers on t is 12. 13 5 18 2	he five cards	Work out the missing r	number	





Platinum Primary 5-a-day 12th October $4,741 \div 11$ $1,072 \times 24$ Write 15% as a fraction Katie has a pet dog, Maxi. Maxi eats two-thirds of a can of dog food each day. How many cans of dog food should Katie buy to last two weeks?



Solve this equation

$$9x + 10 = 7x + 32$$

Heroes Tuition Centre - Homework

Primary 5-a-day **Platinum** 13th October $12 + 8 \times 13 + 7$ = 0.3Raheem draws an isosceles triangle on the grid. Two of the points are (3,-1) (-2,-2)Draw the triangle on the grid

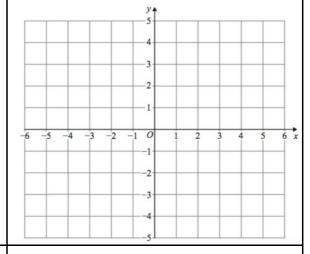
Name:

Primary 5-a-day

Platinum (



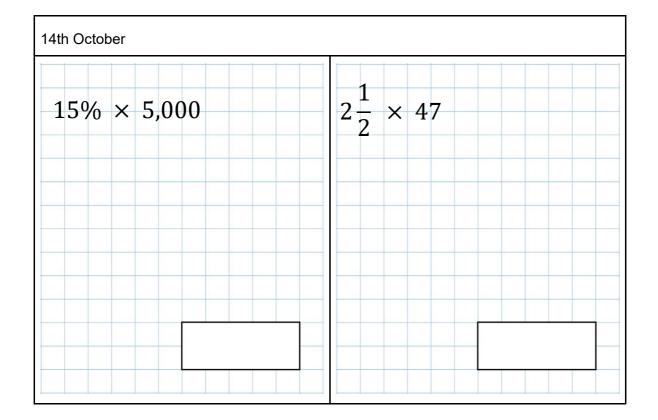
Reflect your triangle in the x-axis.



The cost of making a book can be found using this rule

Cost = number of pages × 5p + 45p for the cover A book costs £6.05

How many pages does that book have?





A cake has a mass of 600g. 36% of the cake is sugar. How many grams of sugar are in the cake?	
The letters a, b, c and d stand for numbers. The sum of each row is given a a a a a a a a a a a a a a a a a a a	a = b = c = d =

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

Primary 5-a-day

Platinum (

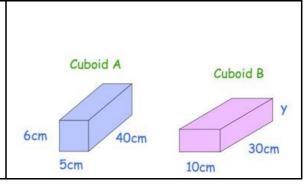


15th October	P(
0.08 × 500	1 8 5 × 1 3 4
Here is a regular pentagon.	
Find the size of each angle	×
n = 18	
What is 20 n + 70?	

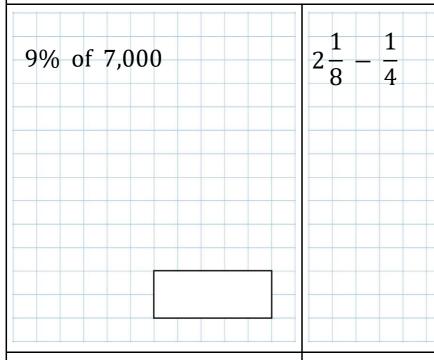


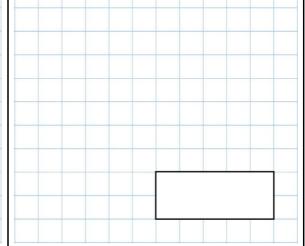
Cuboid A and Cuboid B have the same volume.

Find the height of cuboid B.



16th October





$$19 \times 345 = 6,555$$

Use this multiplication to complete these calculations

190 x 345

Name: _____

Primary 5-a-day

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	N/S
19 x 34.5	20 x 345
Put brackets into the calculation to make it true	
$6 \times 7 + 3 - 8 = 52$	

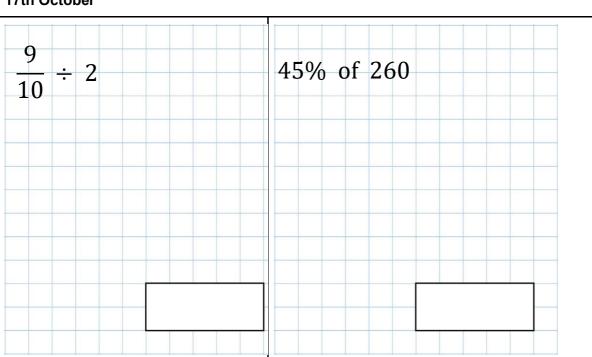
Name

Primary 5-a-day

Platinum



17th October



Work out the value of **y**

3y = 24

The time taken for 4 friends to complete a crossword are

14 minutes 1,200 seconds three quarters of an hour 25 minutes \$UUDQJHWKHWLPHVLQRUGHUVWDUWLQJ ZLWK

WKHVKRUWHVW

Name: _____

Primary 5-a-day

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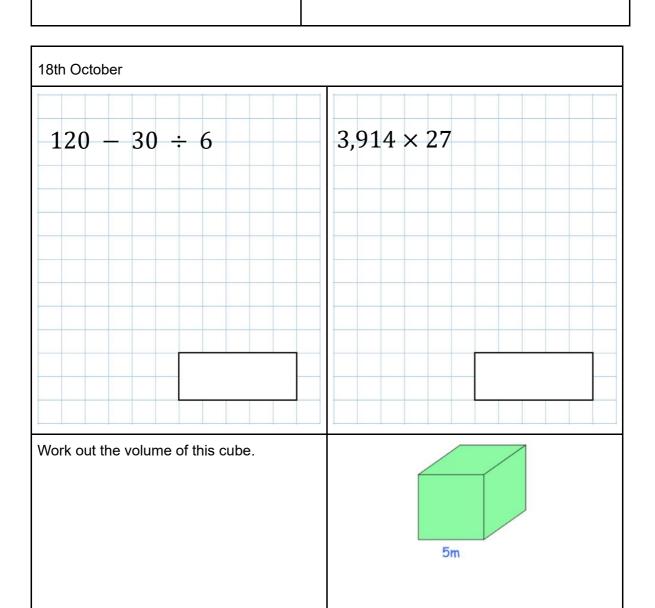


Adam organised a charity concert at a theatre.

The hall holds 35 rows of 42 seats. There were 50 empty seats.

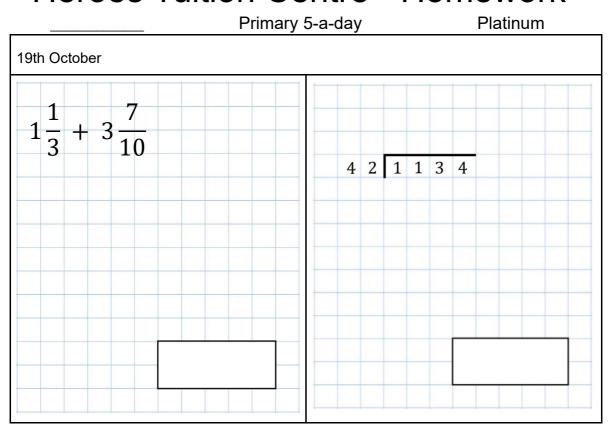
Each person paid £18.

How much money did Adam raise?





	* 1
Find three different prime numbers with a sum of 43	prime number prime number prime number
The End MMXVI	Write the year MMXVI in figures



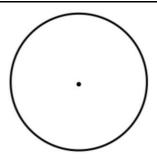
Name: _____

Primary 5-a-day

Platinum (



Draw the diameter on this circle



Lindsey is planting daffodil bulbs

For every 7 bulbs Lindsey planted, only 5 bulbs grew into daffodils

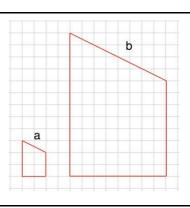
Altogether 70 daffodils grew

How many bulbs did Lindsey plant?

Here are two similar shapes.

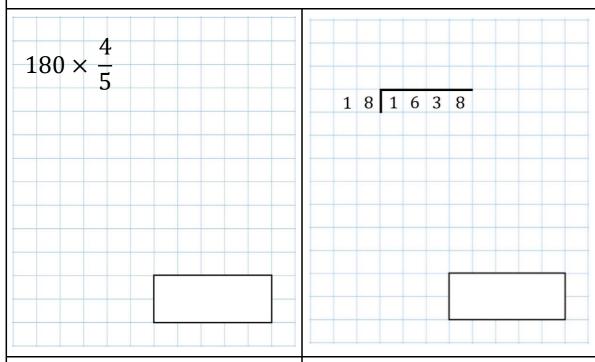
Write down the ratio of side a to side b.

a:b= :

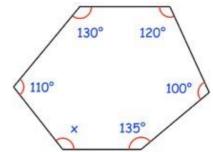








Find the size of angle x.



Burt is making cupcakes He has made 400 cupcakes. Burt places the cupcakes in boxes of 18.



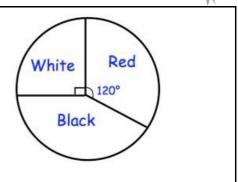
How many boxes can he fill?

Name: _____ Primary 5-a-day

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The pie chart shows	information	about	the
72 counters in a bad	1_		

How many counters are black?



lame: Prii	mary 5-a-day	Platinum
21st October		
5,040,118 — 1,876,09 ² The area of the triangle is 21!"!		3 7 9 1 3 1
Find the height of the triangle, x		x 5cm



	The state of the s
A new snack bar contains 12g of sugar.	
! of the snack bar is sugar. !"	
Work out the mass of the snack bar	
Work out the value of u	
2u - 9 = 6	

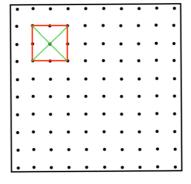
5% of 630

Name:	Primary 5-a-da	ay	Platinum	
Draw a 205° angla				
Draw a 305° angle				
!" Write as a percentage !"				

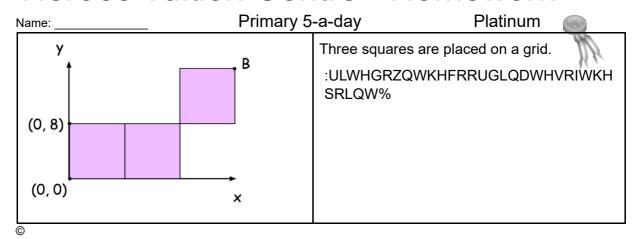


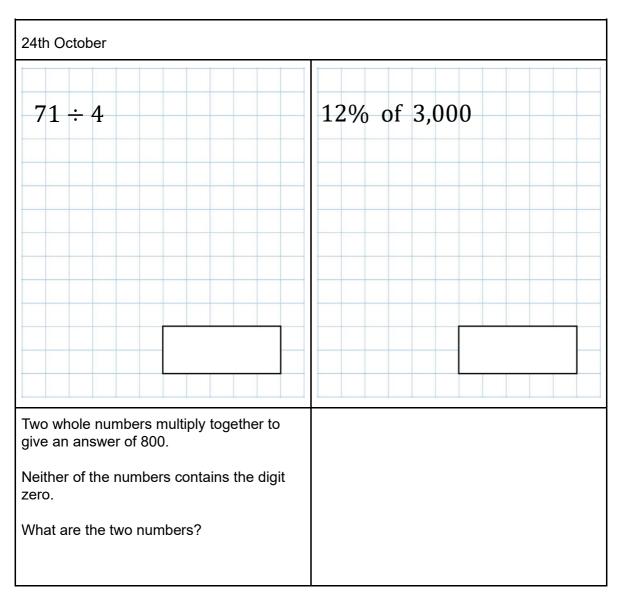
The diagonals of a square cross at right angles.

On the grid, draw a different type of quadrilateral where the diagonals <u>do not</u> cross at right angles

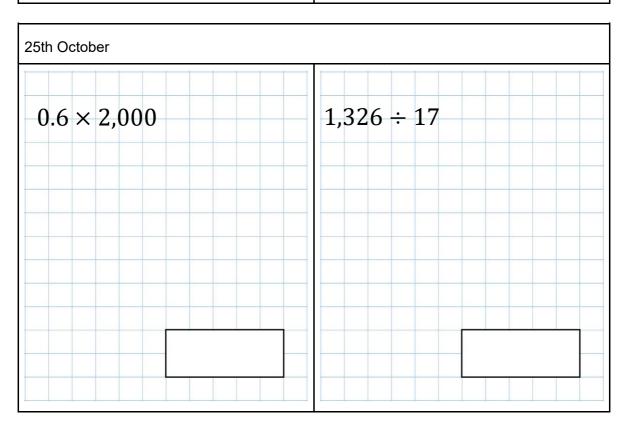


Platinum Name: _____ Primary 5-a-day 23rd October 5 40 - (1+3)!A bus travels 180 miles at a speed of 40 miles per hour. How long does the journey take? Find the lowest common multiple (LCM) of 18 and 20





Name:	Primary 5-a-day	y Platinum 🚳
The area of this triangle is 54!"! Find the height of the triangle.		12cm
Estimate the value of 9.03 + 19.87 x 3.08 - 4.97		



Name:	Primary 5-a-	day	Platir	num	
Matthew says that					W
9 + 4 x 2 = 26					
Is Matthew correct?					
The perimeter of this shape is 86	icm				
Find the missing length		cm 6ci	n 24cm	6cm	
Work out the difference between root of 64 and the square root of					





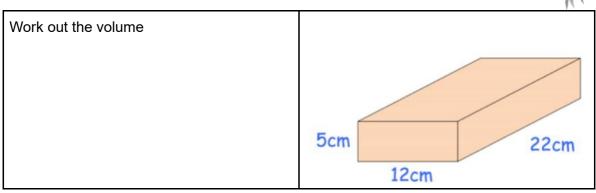
Primary 5-a-day Platinum 26th October 1 $80\% \times 700$ 3 Complete the table Shape Angles add up to Triangle 180° Quadrilateral 360° Pentagon Hexagon Work out the value of ${\bf k}$ 16 - k = 5

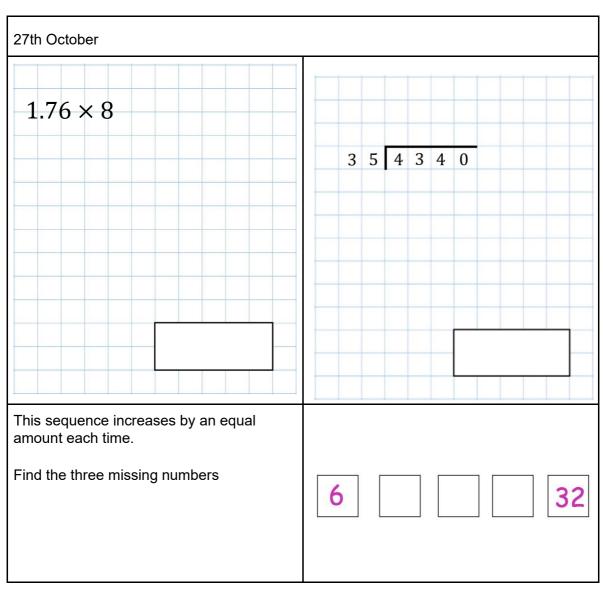
Name: _____

Primary 5-a-day

Platinum







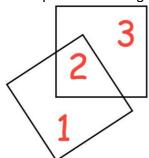
Name: _____

Primary 5-a-day

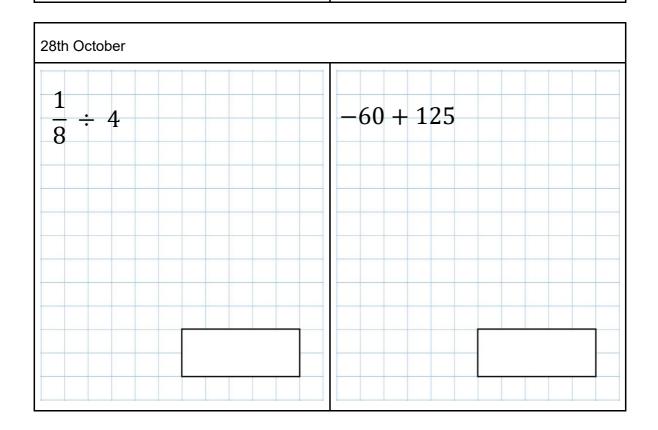
Platinum 🥌



This diagram shows two squares that overlap to make 3 regions.



What is the greatest number of regions that can be made using two overlapping squares?



Name: _____

Primary 5-a-day

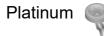
Platinum



Find the shaded area	18cm 15cm
Work out the value of x	
5x + 20 = 35	
Convert 3.5 kilometres into millimetres	

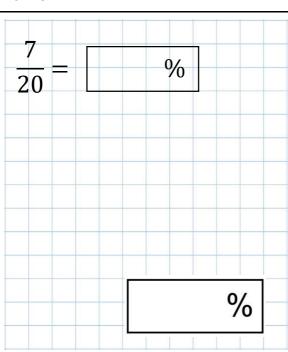
Name: _____

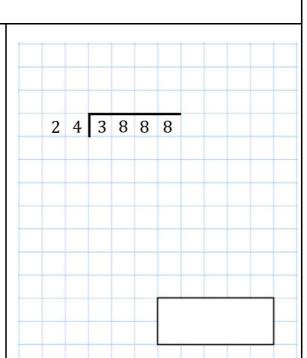
Primary 5-a-day





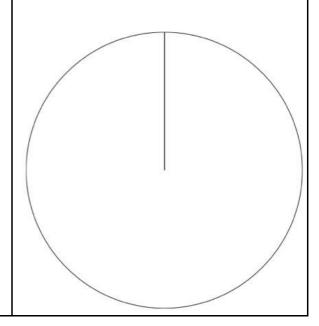
0011	\sim 1	
29th	CIO	ne





Draw a pie chart to show this information

Breed	Frequency
Spaniel	11
Poodle	7
Greyhound	4
Jack Russell	14



The two triangles are similar.

Work out the missing length

6.5cm

1.2m

1.3m



Platinum Primary 5-a-day Name: 30th October $\frac{1111}{40} = 0.3$ % 0.065 =% $42 \times 31 = 1,302$ 42 x 62 Use this multiplication to complete the calculations below 21 x 31 42 x 32



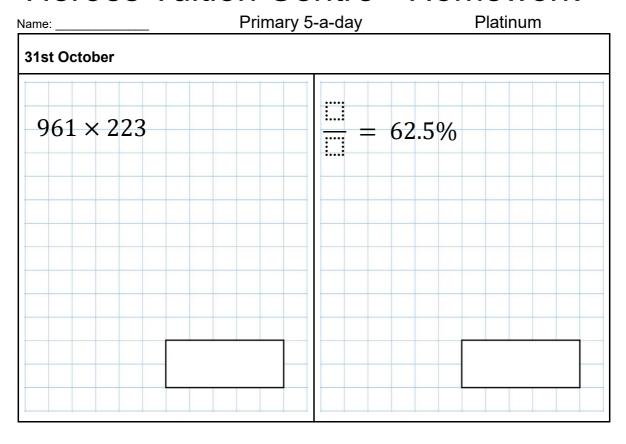
A sequence of numbers starts at 15 and follows the rule

"treble the last number and add 4"

15 49 151 457 ...

The number 4,129 is in the sequence.

Calculate the number which comes immediately before 4,129.





Stuffed Turkey

Serves 4

Turkey 500g
Red Onion 1
Garlic Cloves 2
Chestnut Mushrooms 150g
Spinach 140g
Chicken Stock 300ml

Dylan wants to make Stuffed Turkey for 14 people.

How much of each ingredient is needed?

Kelly has 7 pence more than Andy. Georgia has 8 pence less than Andy.

They have £1.48 in total.

How much money does Andy have?