



1st August

2% of 9,000

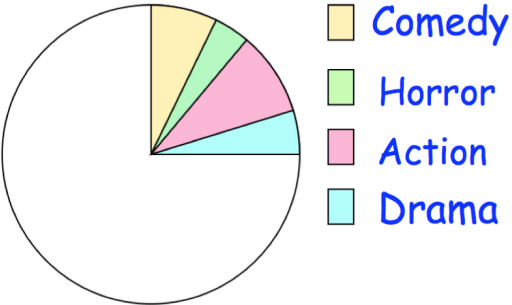
$$0.\dot{6} = \frac{\square}{\square}$$

Write $\frac{5}{8}$ as a decimal

Write $\frac{13}{40}$ as a decimal

Dorothy has drawn a pie chart to show her friends' favourite type of movie

Genre	Frequency
Comedy	26
Horror	14
Action	33
Drama	17



What has Dorothy has done wrong?

What size should the angle be for Comedy?



2nd August

$36 + 4 \div 2$

539×109

Sketch the net of a triangular prism

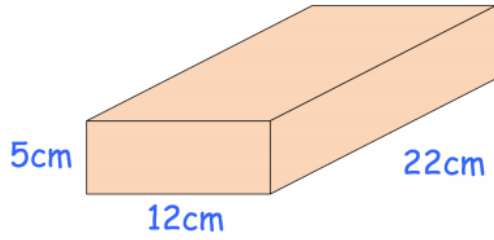
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$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$ $\frac{1}{7}$

Use three of these fraction cards to complete the sum

$\square + \square + \square = 1$

Work out the volume of this cuboid





3rd August

$$7,080 \div 60$$

$$\frac{3}{11} \div 2$$

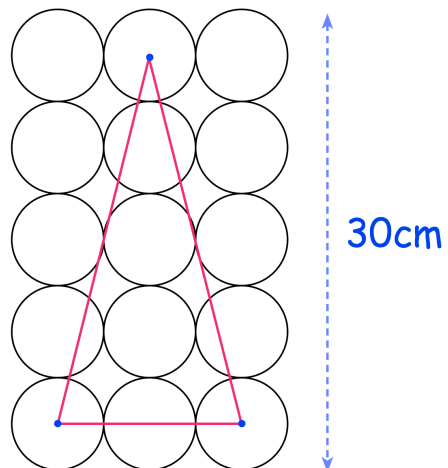
Draw two quadrilaterals with diagonals that **do not** cross at right angles



The diagram shows 15 identical circles and a pink triangle.

The vertices of the triangles are at the centre of the circles.

Work out the area of the pink triangle





5th August

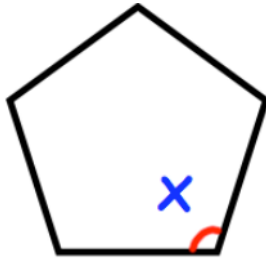
$$30 + 7^2 \times 2$$

Grid for working out the calculation $30 + 7^2 \times 2$. A rectangular box is provided at the bottom right of the grid for the final answer.

$$9,614 \div 23$$

Grid for working out the calculation $9,614 \div 23$. A rectangular box is provided at the bottom right of the grid for the final answer.

Shown is a regular pentagon



Find the size of angle x

Four bananas have a **mean** mass of 115g
The heaviest banana is removed.
The **mean** mass of the remaining three bananas is 107g.

What is the mass of the heaviest banana?

Which is larger 30% of 8 or 8% of 30?

**6th August**

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

$$\frac{13}{20} = \boxed{} \%$$

%

There are 80 teachers in a school.

The headteacher says that exactly 36% of the teachers drive to work.

Explain why the headteacher is wrong.

Work out the value of y

$$2y - 16 = 80$$

A red light flashes every 30 seconds and a green light flashes every 24 seconds.

They both flash at the same time.

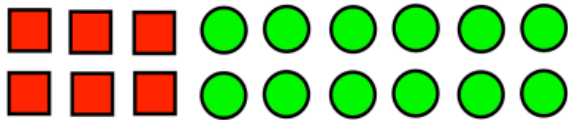
After how many seconds will they next both flash at the same time?



8th August

$$9.03 \div 7$$

$$68\% = \frac{\begin{matrix} \square \\ \square \\ \square \\ \square \\ \square \\ \square \\ \square \\ \square \end{matrix}}{\begin{matrix} \square \\ \square \\ \square \\ \square \\ \square \\ \square \\ \square \\ \square \end{matrix}}$$



Write down the ratio of red squares to green circles

Rebecca is $\frac{1}{6}$ of Samuel's age.
 Samuel is 7 years younger than Louise.
 If Rebecca is 9 years old, how old is Louise?



Work out the missing number

$$\square \div \frac{7}{15} = \frac{2}{3}$$



9th August

$$-40 - 55$$

$$0.8 \times 3,000$$

Row 1	9	12	15
Row 2	16	19	22
Row 3	23	26	29
Row 4	30	33	36

What number comes at the end of row 30?

Which row has a sum of 246?

Ben and Holly share 60 marbles in the ratio 2:3.

How many marbles does Holly receive?



10th August

$$\frac{4}{25} \div 2$$

15% of 7,000

The diameter of a circle is 7cm.

What length is the radius?

Here are some planned school trips

	Karting	Museum	Theme Park
Number of students	140	221	342
Number of teachers	8	12	19

For every 18 students there must be at least 1 teacher.

Do all the trips have enough teachers?



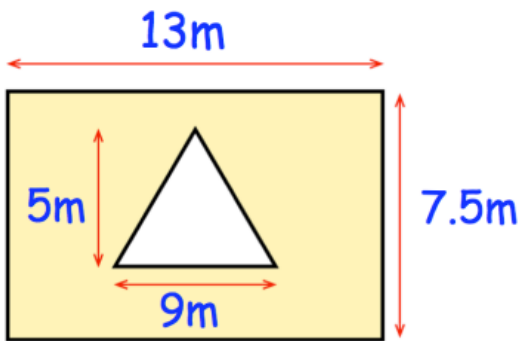
11th August

0.225 = $\frac{\square}{\square}$

Grid area for the decimal conversion problem.

$\frac{1}{2}$ of $\frac{3}{4}$

Grid area for the fraction problem.



Work out the shaded area

William Shakespeare was born in 1564

Write 1564 in Roman numerals



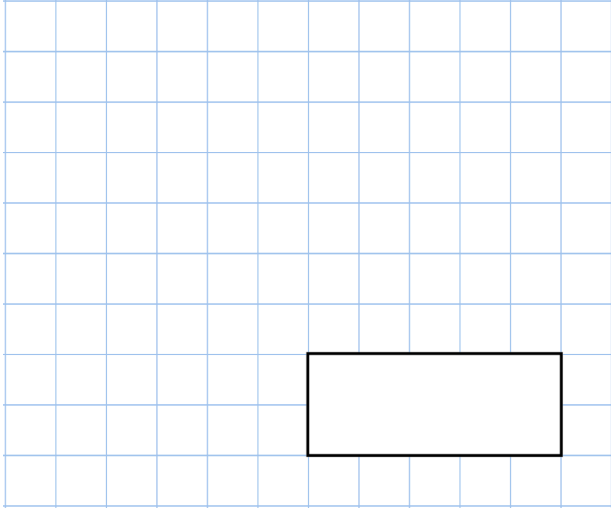
One gram of platinum costs £20.17

How much does **three fifths** of a kilogram cost?

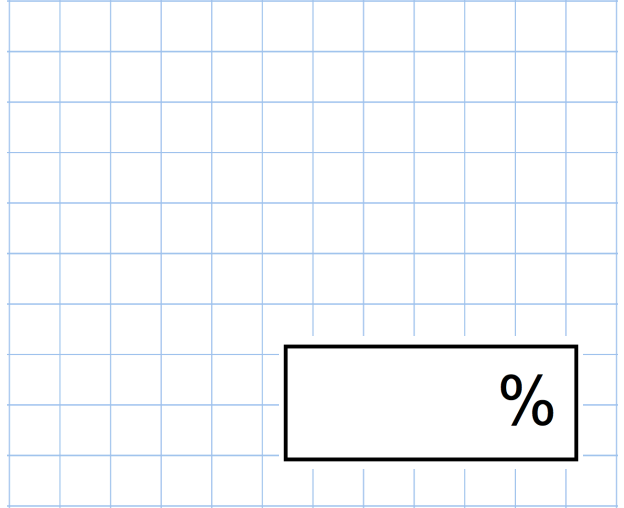


12th August

$$50,500 \times 13$$

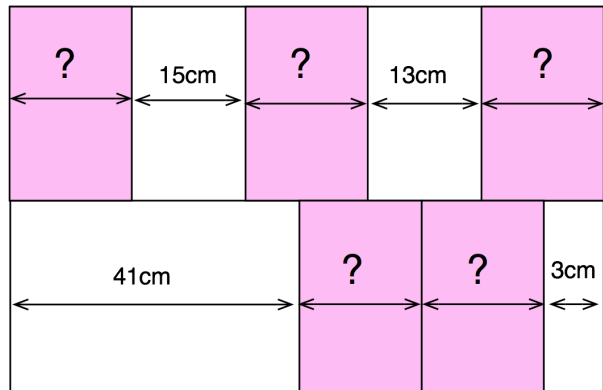


$$\frac{2}{3} = \boxed{} \%$$

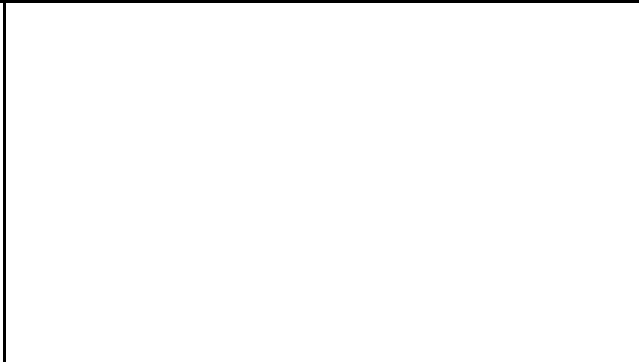


In this diagram, the pink rectangles are all of equal width.

Calculate the width of one of the pink rectangles



Find the HCF (highest common factor) of 36 and 60

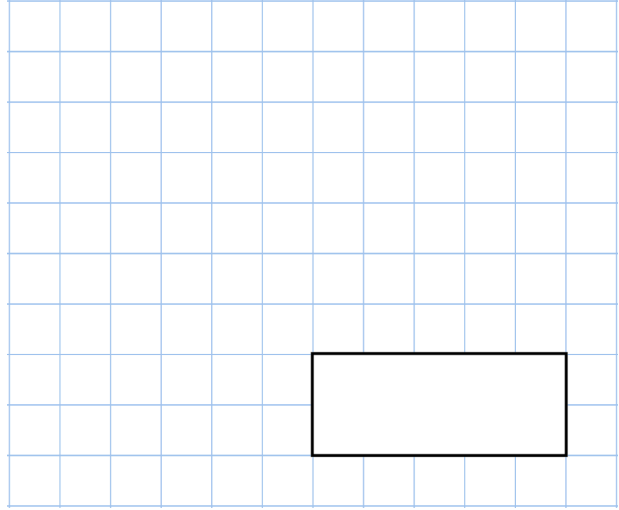
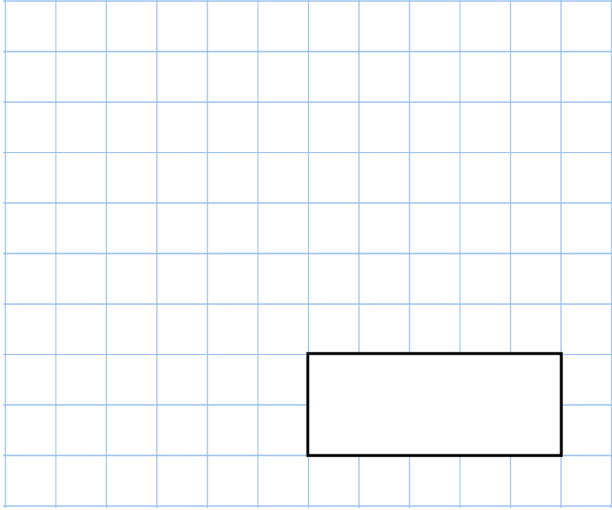




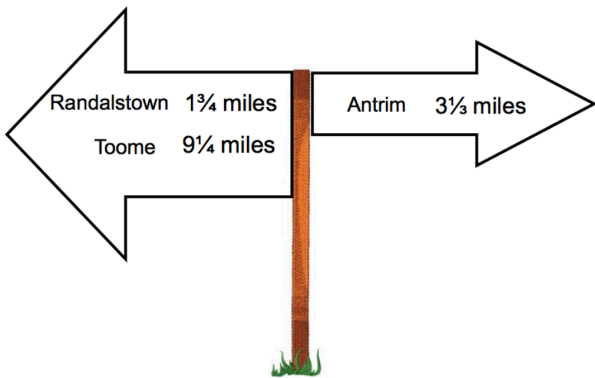
13th August

$$2^4$$

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



Lewis is walking from Antrim to Randalstown



Work out the distance from Antrim to Toome

Work out the distance from Randalstown to Toome

Write four numbers with a **mean** of 12 and a **range** of 12.



14th August

120^2

A 20x10 grid with a rectangular box at the bottom right, intended for working out the value of 120^2 .

$50 - 15 \times 3$

A 20x10 grid with a rectangular box at the bottom right, intended for working out the value of $50 - 15 \times 3$.

On a map, 1cm represents 40km
The distance between two cities is 380km
On the map, what is the distance between the two cities?

The perimeter of a square is 36cm
Find the area of the square

Hugo calculates the size of each angle for a pie chart

Destination	Frequency	
Employment	15	$\times 0.2 = 3^\circ$
Apprenticeship	11	$\times 0.2 = 2.2^\circ$
Further Education	40	$\times 0.2 = 8^\circ$
Gap Year	6	$\times 0.2 = 1.2^\circ$

$15 + 11 + 40 + 6 = 72$

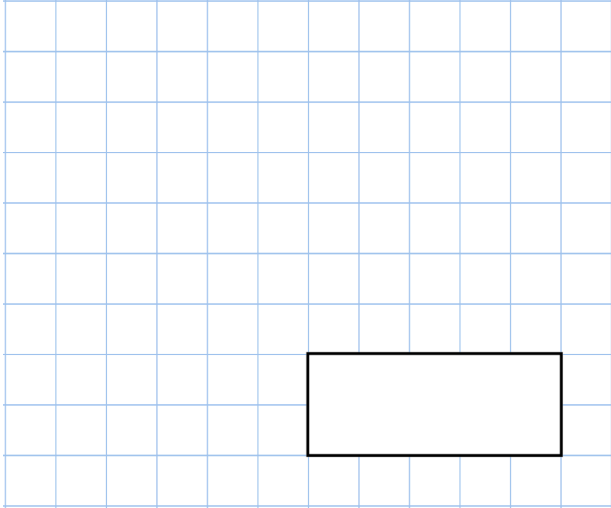
$72 \div 360 = 0.2^\circ \text{ per person}$

Can you spot what Hugo has done wrong?

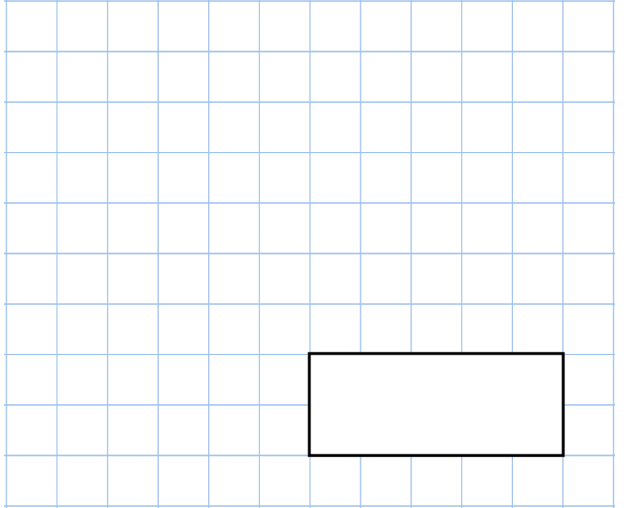


15th August

$$570 \times 109$$



$$468 \div 18$$

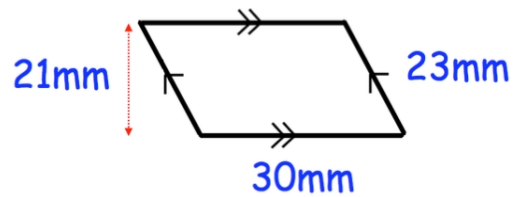


An adult ticket for the cinema is £13.00
 A child ticket is half the price of an adult ticket. Mr and Mrs Henderson and their four children go to see a movie.
 Mrs Henderson has a voucher to save 20%.



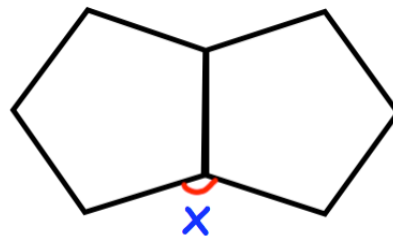
How much does she have to pay for the tickets?

Find the area of the parallelogram



Two identical regular pentagons are shown.

Find angle x





16th August

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

$$1,000,090 - 531,998$$

Grid for calculation: $1\frac{1}{3} - \frac{4}{5}$

Grid for calculation: $1,000,090 - 531,998$

Arrange in order from smallest to largest

$$\frac{3}{4}, \frac{2}{3}, \frac{5}{6}, \frac{1}{3}$$

Rosie has four **different** triangles

Complete the table to show the size of the angles in each triangle

Type of Triangle	Angle 1	Angle 2	Angle 3
Scalene	20°		
Right-angled	70°		
Isosceles	50°		
Isosceles	50°		

Leah bought a new car costing £18,000
She paid a deposit of £4,000.

Leah paid the rest of the money over 50 equal monthly payments.

How much was each monthly payment?



17th August

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

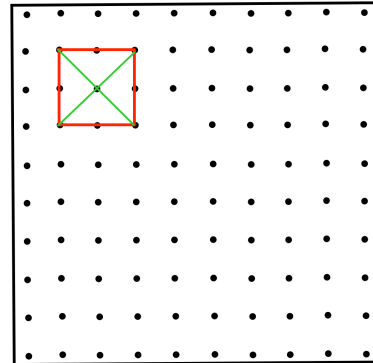
$$1,090 \times 25$$

Round 10.6491 to one decimal place

Round 10.6491 to two decimal places

The diagonals of a square cross at right angles.

On the grid, draw a different type of quadrilateral where the diagonals cross at right angles



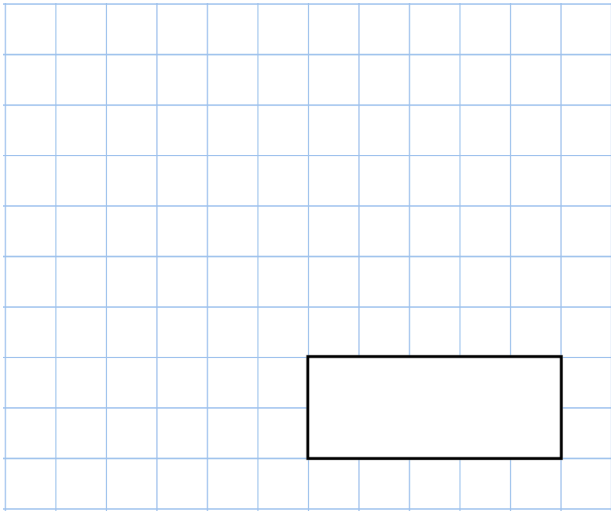
Solve the equation

$$5w + 11 = 3w + 20$$

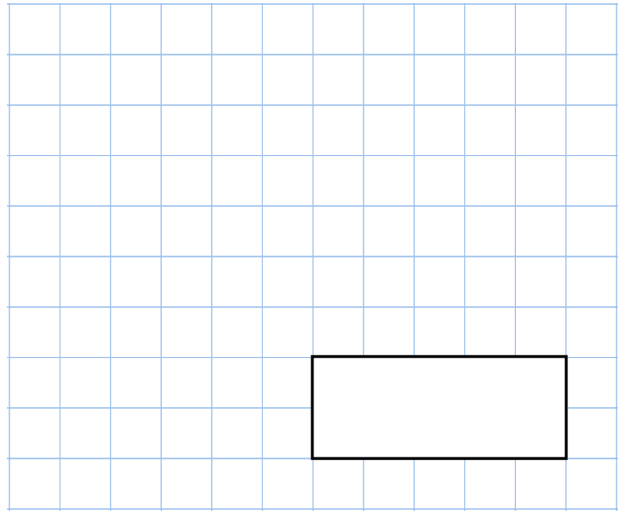


20th August

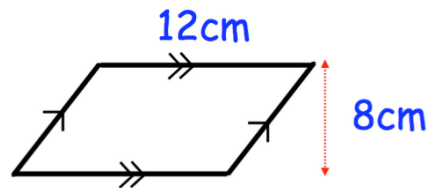
$$-40 - 30$$



$$0.9 \times 3,000$$



Find the area of the parallelogram



Raspberries cost £13.30 per kg
 Mangos cost £6.20 per kg
 4 pineapples cost £5

Work out the cost of 10kg of raspberries,
 7kg of mangos and 2 pineapples.

Molly thinks of a number.

She adds half of the number to
 a third of the number.

Her answer is 100.

What was the number Molly first thought
 of?





21st August

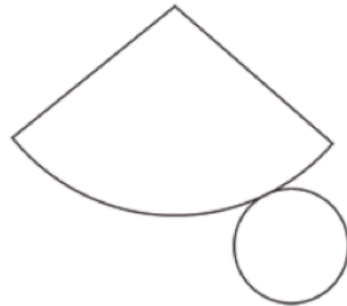
45% of 800

A 20x10 grid with a rectangular box at the bottom right, intended for the student to show their calculation for 45% of 800.

$26 \div 5$

A 20x10 grid with a rectangular box at the bottom right, intended for the student to show their calculation for 26 divided by 5.

Here is a net for a 3D shape
Which shape?

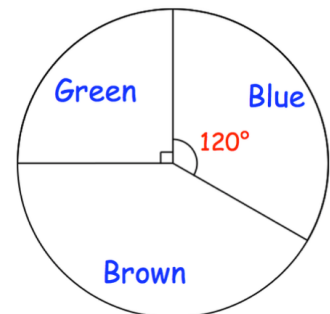


Burt is making cupcakes
He has made 700 cupcakes.
Burt places the cupcakes in boxes of 16.



How many boxes can he fill?

There are 48 students in a year group.
The pie chart shows information about
their eye colour.

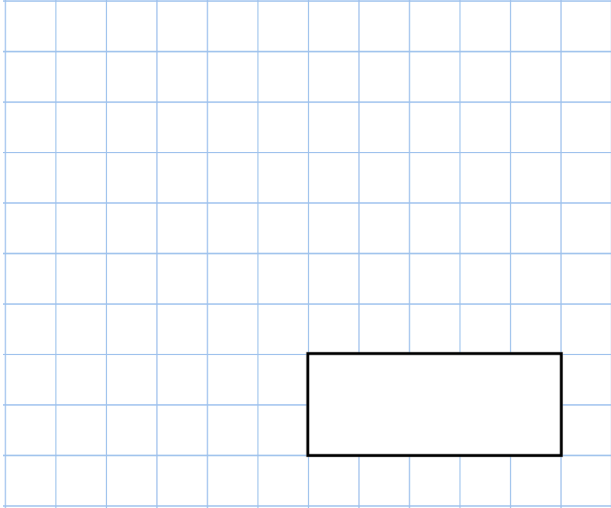


How many students have brown eyes?

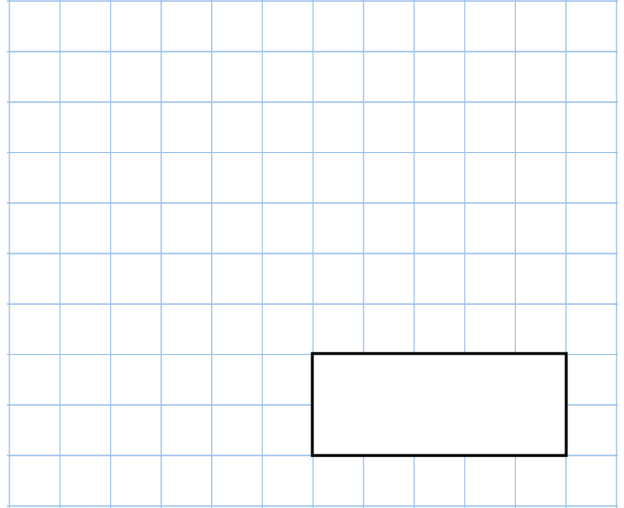


22nd August

$$11^3$$



$$\frac{\square}{400} = 0.5$$

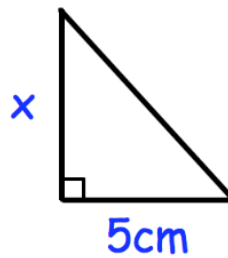


$$5a + 15 = 75$$

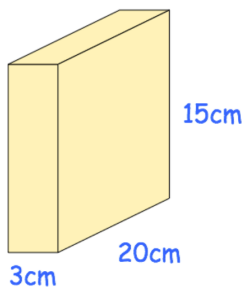
Work out the value of **a**

The area of the triangle is 15cm^2

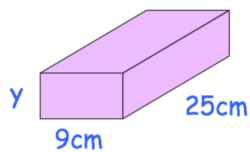
Find the height of the triangle, **x**



Cuboid A



Cuboid B



Cuboid A and cuboid B have the same volume.

Find the height of cuboid B, **y**

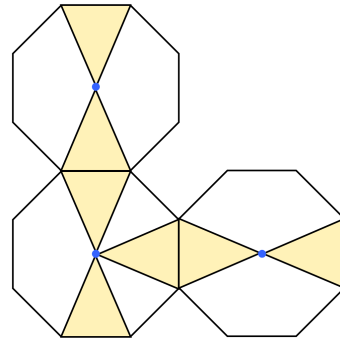


24th August

$$275^2$$

$$\frac{1}{3} + \frac{3}{4} + \frac{1}{2}$$

The diagram shows three regular octagons
 There is a blue dot at the centre of each octagon.
 What fraction of the diagram is unshaded?



The diameter of a circle is 1.9m
 What size is the radius of the circle?

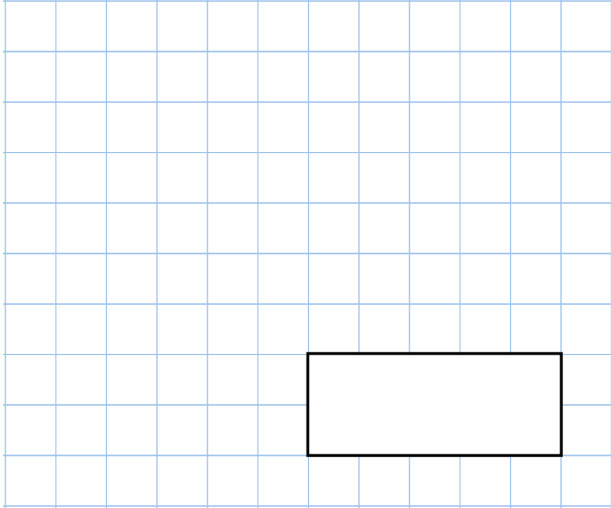
Molly thinks of a number.
 She adds half of the number to
 a third of the number.
 Her answer is 75.
 What was the number Molly first thought
 of?



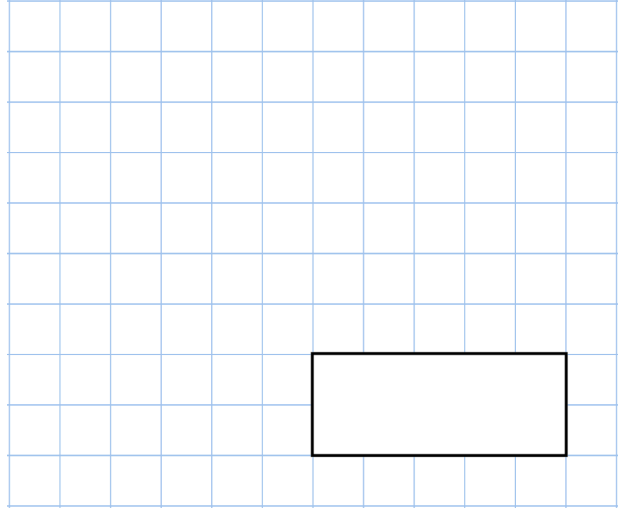


25th August

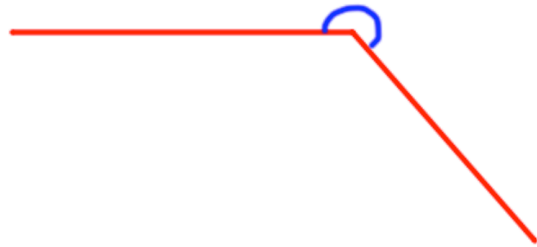
$$0.16 \times 300$$



$$55 - 9 \times 2$$

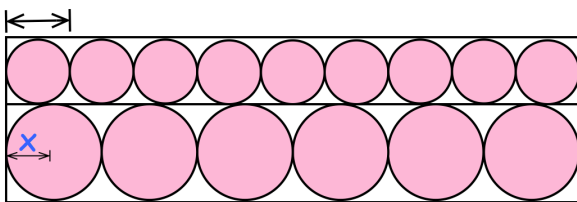


Measure this reflex angle



Some small circles and large circles fit exactly inside this rectangle.

30cm



The diameter of a small circle is 30cm.

Work out the **radius** of a large circle.

**26th August**

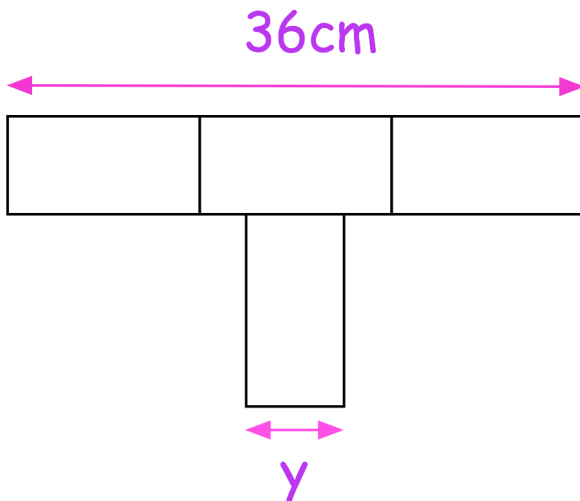
$$78\% = \frac{\square}{\square}$$

$$\frac{9}{10} \div 2$$

Find the highest common factor (HCF) of 72 and 56

Here is a shape made from 4 identical rectangles.

The total area is 240 cm^2

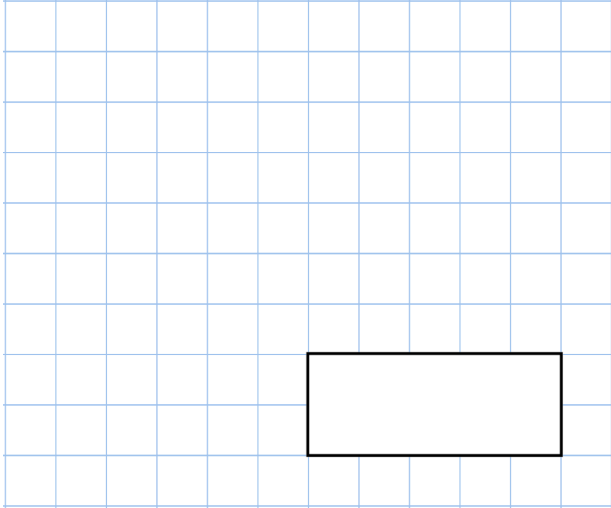


Work out the value of y

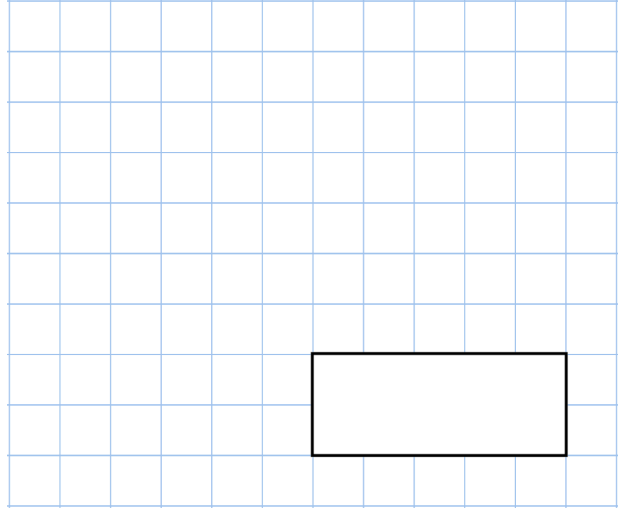


27th August

$$2072 \div 14$$



$$\frac{3}{4} + \frac{5}{7}$$

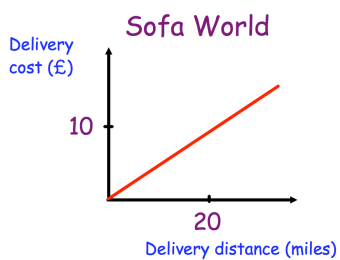
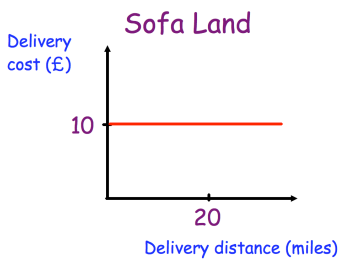


Samuel says that

$$6 + 4 \times 9 = 90$$

Is he correct?

Sofa World and Sofa Land charge to deliver pizzas.



Describe the delivery cost of Sofa World.

Sofa Land has be done for you.

Sofa Land

The delivery cost is always £10 no matter how far the sofa is delivered

Sofa World



28th August

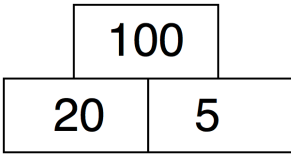
$1.74 \div 12$

1579×642

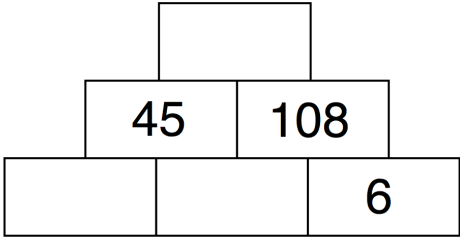
Circle all the prime numbers

7	19	2
17	81	
9	1	27
101	100	55
		99

In this multiplication pyramid, two numbers are multiplied to give the number above.



Find the missing numbers



Here are three equations

$x + y + z = 37$
 $x + y = 27$
 $y + z = 23$

What are the values of x, y and z?

$x = \square$ $y = \square$ $z = \square$



29th August

$$\frac{3}{8} = \boxed{} \%$$

%

$$1674 \div 31$$

%

Colin runs at a speed of 8 metres per second.
How long will it take Colin to run 40 metres?



Find the value of y

$$7y + 5 = 4y + 20$$

I am thinking of a number that is not zero.
I **multiply** my number by -3
Tick the statement that is true.

- The answer must be positive
- The answer must be negative
- The answer could be positive or negative



30th August

$$1\frac{1}{5} - \frac{2}{3}$$

65% of 30

Each quadrilateral has a perimeter of 40cm.

Complete the table

	Side Lengths			
Rectangle	13cm	7cm	13cm	7cm
Rhombus	10cm			
Parallelogram	12cm			
Kite	6cm			

Shay has £1000 to spend on lemon trees and plum trees.

Each lemon tree costs £18

Each plum tree costs £23

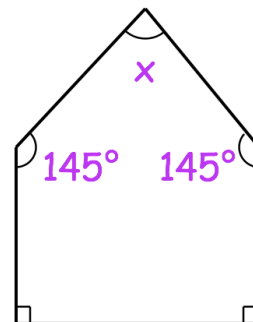
Shay buys 15 lemon trees.

How many plum trees can Shay buy?

Is the shape a **regular** pentagon?

Yes No

Find the size of angle x





31st August

$$70 - 30 \div 5$$

$$1\frac{2}{3} - \frac{7}{8}$$

Adam is organising a charity concert at school.

The concert is sold out.

The hall holds 35 rows of 42 seats.

Each person pays £14

How much money will Adam raise for charity?



On the grid, draw a triangle with **only one** side of 4cm and a 90° angle

On the grid, draw a triangle with **only one** side of 4cm and **only one** 45° angle