



Key Stage 2 Weekly Learning Guide

Year: 6, Elm and Oak	Theme: Rainforest Survival	Week beginning: 30/03/2020
Daily Activities		
Wake up & Shake up 20 - 30 mins	Exercise with Joe Wicks, go for a walk, run or dance, practise your football skills in the garden. Keep a skills diary e.g. how many keepy-uppies can you do over the course of a week or how many seconds you can hold a plank for.	
Reading - 20 mins	Read a reading book from home, school or online. Can you write a book review? Use the reading takeaway menu questions posted on Google Classroom and via MarvellousMe	
Maths - 30 mins	Log on to Mathletics or PurpleMash and practise a key skill listed below. Have a look on Google Classroom for the extended maths project: investigating angles and shapes.	
BREAK	Eat a healthy snack, exercise or relax with some mindfulness.	
Times Tables - 10 - 15 mins	Log on to Time Tables Rock Stars or Mathletics to hone your times tables and arithmetic skills. Lower your TTRockstars speed to under two seconds per question.	
Spelling - 5 - 10 mins	Practise your weekly spelling list and put your spellings into sentences. Challenge: can you write a silly short story using ALL your spelling words?	
Writing - 30 mins	Complete a diary of your day or a description of an interesting event from your daily learning. Complete a character description of a favourite book character.	

Key Mathematical skills	Key Reading skills	Key Writing skills
<ul style="list-style-type: none"> Understand how to add, subtract, multiply and divide fractions Understand simple algebraic equations and how to find unknowns Understand how to convert between different metric measurements Understand how to convert between key metric and imperial measures e.g. km - miles Confidently convert between fractions, decimals and percentages Multiply and divide by 10, 100, 1000 confidently and quickly 	<ul style="list-style-type: none"> Be able to decode increasingly complex texts Understand how to infer meaning from texts (reading between the lines) Ask questions about the author's motivations for using certain words or sentence structures Be able to answer a range of different comprehension questions related to texts that you have been reading Understand how to write short summaries of fiction and non-fiction texts 	<ul style="list-style-type: none"> Using simple SPaG conventions consistently and correctly i.e. capital letters, full stops or other ending punctuation Writing developed noun phrases with ambitious vocab Use varied sentence structure, thinking about sentence openers to excite the reader e.g. fronted adverbials Use interesting punctuation to engage your audience e.g. semi-colons, brackets and exclamation marks

Weekly Activities	
Geography This week for your theme work, we would like you to focus on the negative effects of the palm oil trade on the wildlife of the rainforest. Produce a research piece of writing about the impact that the palm oil trade has on the orang-utan population in the rainforests of Borneo. You may wish to produce this piece of work using a computer or you can also use your exercise books or a piece of paper to design a leaflet or a poster. Remember to focus on the facts. Use sites such as Kiddle Encyclopaedia to inform your research	PSHE Continuing our focus on our "Healthy Me" topic in JIGSAW, we would like you to produce your own workout program. For inspiration, you may want to look at The Body Coach and his workouts or ask an adult at home what they do to keep fit. You may wish to produce a workout program using Google Docs, or if you would like to get more creative, you could use your exercise books to outline your program. These programs that you create would be a fantastic way to keep active during home learning.
Science Continue with the below STEM starter activities. https://www.stem.org.uk/sites/default/files/pages/downloads/Starters-for-STEM.pdf . Share your Science projects (with adult help) via Twitter with Miss Penfold or Mr S.	Art Design, create or make your own animal and the habitat that it lives in. Think about the kinds adaptations that your animal would have to have in order to survive and thrive in the habitat that you have created for it.

Group 1

comprehension
extension
attention
intention
beautician
dietician
magician
musician
optician
physician

Group 2

ascent
crescent
descent
fascinate
scent
scenery
scissors
science
scientifically
scientist

Group 3

laughable
respectable
inevitable
arguably
noticeably
regrettably
reliably
comfortably
collectible
convertible

Name: _____



2nd March

$$\frac{2}{5} - \frac{1}{20}$$

$$80,001 - 405$$

Here is a rule for the cost of a taxi

Cost = £5 plus an extra £1.50 for each mile

How much would a 5 mile journey cost?

Round 209,987 to the nearest 1,000

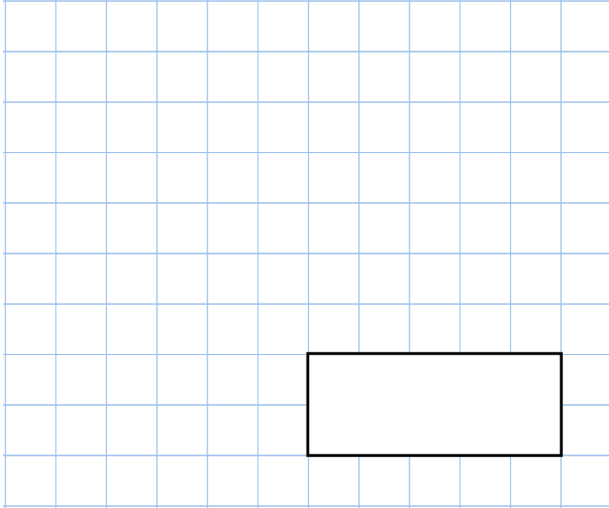
Round 209,987 to the nearest 100

Circle the numbers that are factors of 60

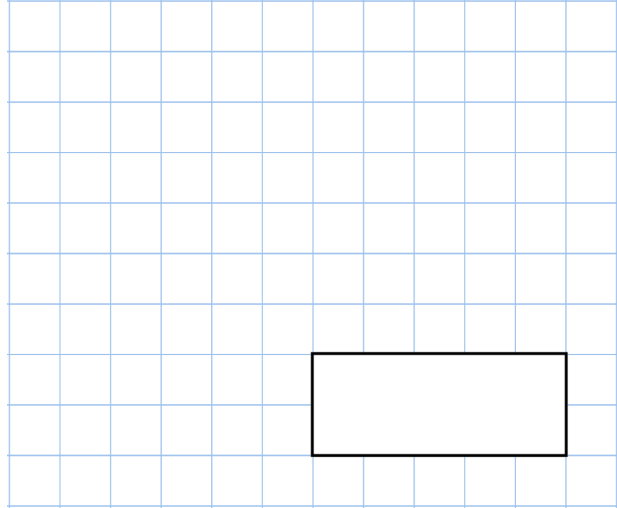
1 7 8 9 12 14

**3rd March**

$$10^3$$



$$11 \times 13 \times 7$$



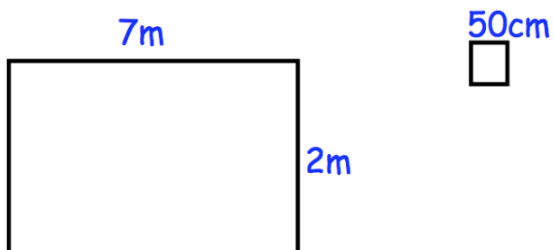
Arrange the landmarks in order, from closest to furthest.

London Eye	0.41 miles
Wembley	11.62 miles
Buckingham Palace	0.8 miles
Trafalgar Square	0.63 miles
Hyde Park	2.27 miles
Thorpe Park	24.7 miles



Henry is tiling his bathroom floor.

The bathroom is 7m long and 2m wide.



Each tile is a 50cm by 50cm square.
Each tile costs £3.

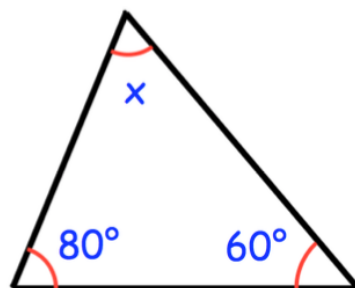
Work out the total cost of tiling the floor.

**6th March**

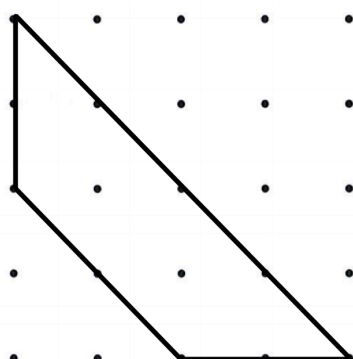
$$\begin{array}{r} 79 \\ \times 32 \\ \hline \end{array}$$

50% of 53

Find x

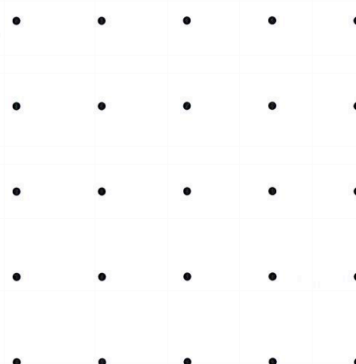


Paige draws this shape on a grid



She turns her grid one quarter turn anticlockwise

Draw the shape in its new position after the turn



**7th March**

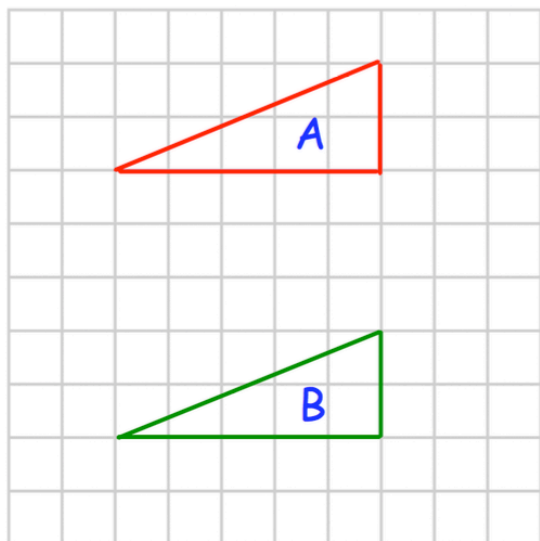
$$\frac{3}{4} = \frac{9}{\boxed{}}$$

$$1.6 \times 100$$

Circle the numbers that are factors of 18
and 27

2 3 6 9 10

Triangle A has been translated to
Triangle B



Complete this sentence

Triangle A has been translated

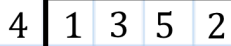
squares to the right and

squares upwards

Translate triangle B 2 squares left and
2 squares upwards

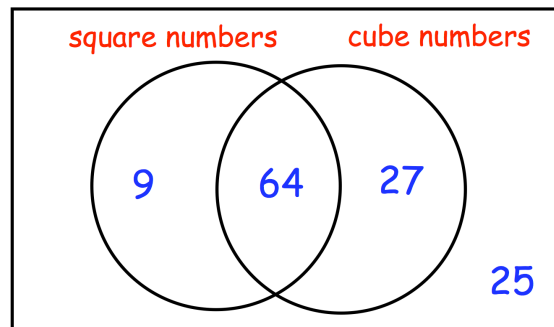


8th March



$$\frac{1}{5} + \frac{3}{10} + \frac{1}{5}$$

Circle the number in the wrong position



In a bag there are green, white and blue counters.

$\frac{1}{10}$ of the counters are green

 $\frac{3}{5}$ of the counters are white

What fraction of the counters are blue?

Olivia chooses a whole number

She divides it by 5 and then multiplies by 2

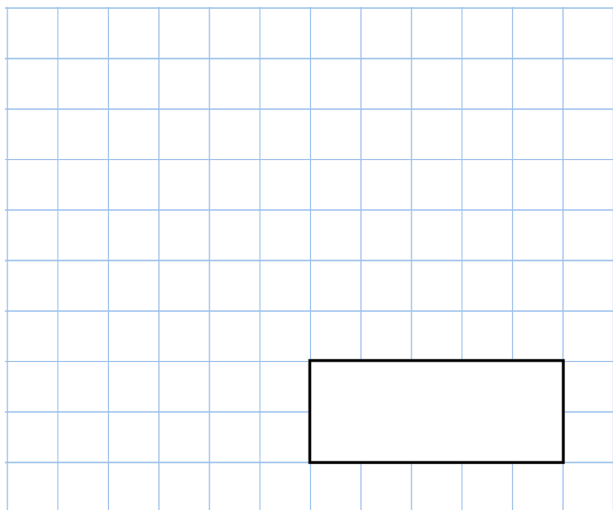
She then subtracts 35 from this result.

Her answer is -1

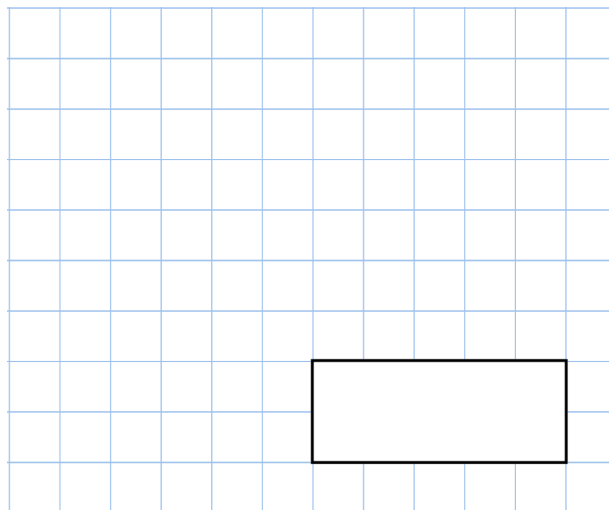
What was the number she started with?

**9th March**

9^2



$987 + 1,454 + 5,008$

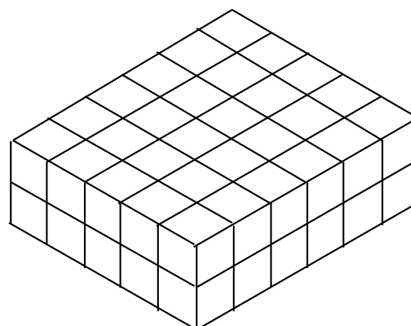


Martha says that 7.2 is less than $7\frac{19}{100}$

Is she right?

Each cube has a volume of 1cm^3

Work out the volume of the cuboid



A snowboarder completes 4 somersaults in a jump.

How many degrees does she turn through in the jump?



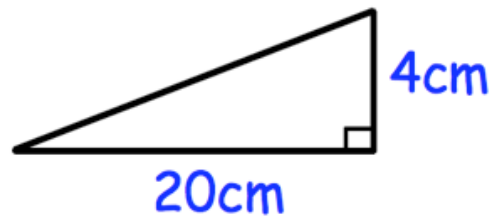


10th March

$$8,305 + 1,956$$

4^3

Find the area of this triangle



Put these measurements in order from largest to smallest

2kg, 8000g, 0.9kg, 75g, 0.09kg

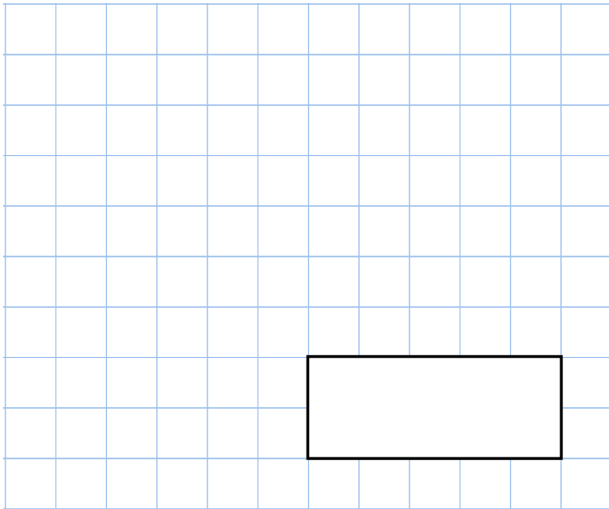
William is thinking of two numbers.
Both numbers are square numbers greater
than 1.

The sum of the numbers is 100.

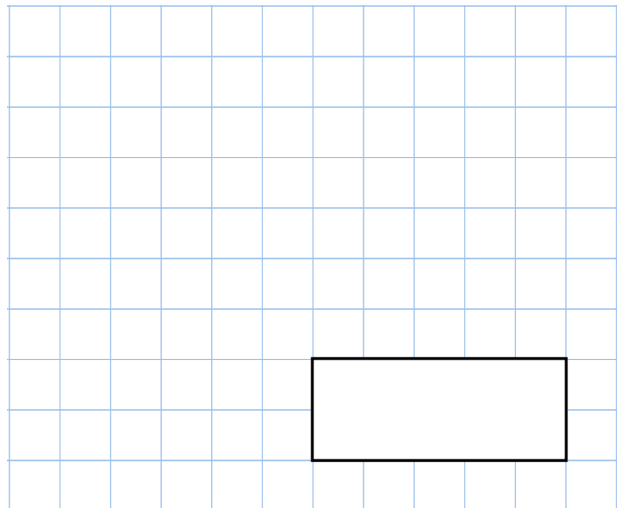
Write down the two numbers.

**13th March**

$$5.12 \times 10$$

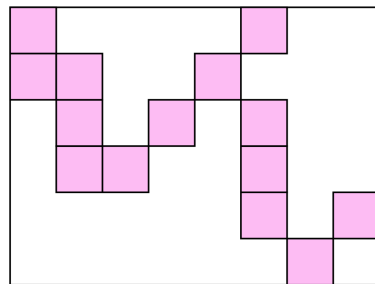


$$\frac{3}{5} + \frac{1}{10}$$

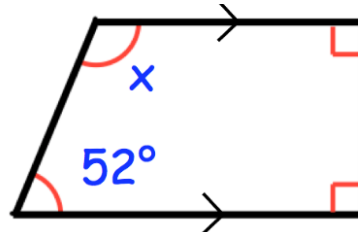


Here is a rectangle with 14 identical shaded squares inside it.

What fraction of the rectangle is shaded?
Simplify your answer if possible.



Find the size of angle x



Arrange in order, from smallest to largest

$$\frac{1}{4} \quad 0.19 \quad 0.3 \quad 26\% \quad \frac{1}{5}$$



14th March

$$5.7 + 2.025$$

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

Here is part of a train timetable

Southville	07 04
Leek	07 09
Jamestown	07 38
Lincoln	08 01
Gold City	08 39

Reece lives in Southville and works in Leek.
He works Monday to Friday.
Reece travels to work and back each day by train.

Below is a calendar for November

November

Mo	Tu	We	Th	Fr	Sa	Su
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

How long is the journey from Southville to Leek?

How long does Reece spend on the train in November?

Give your answer in hours and minutes

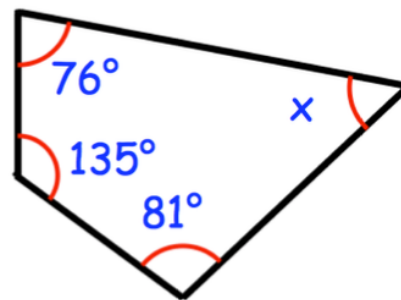


15th March

50% of 380

$$45 \times 31$$
A diagram of a rectangular box on a grid. The box is white with a black border and is positioned in the lower right quadrant of the grid. It is 4 units wide and 2 units high.

Find the size of angle x



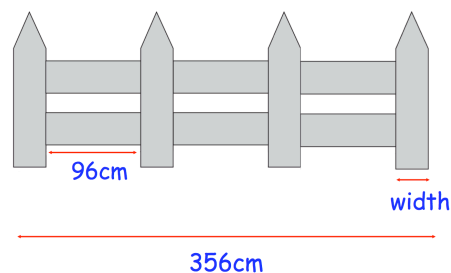
The cost of a plumber is found by

£15 x number of hours

Mr Smith hires a plumber and the job lasts 13 hours.

Work out the total cost.

A fence has four posts, equally spaced. Each space between the posts is 96cm. Work out the width of each post.



**16th March***75% of 20*

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 $8,222 - 3,350$

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The first two numbers in this sequence are 2.65 and 3.59.

The sequence then follows the rule

"to get the next number, add the two previous numbers"

Work out the next two numbers

2.65 3.59 6.24 9.83

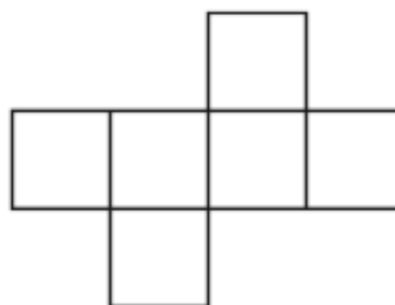
Both rectangles have the same area.
Find the length of the blue rectangle.



The numbers 1,2,3,4,5 and 6 are written on the faces of the cube.

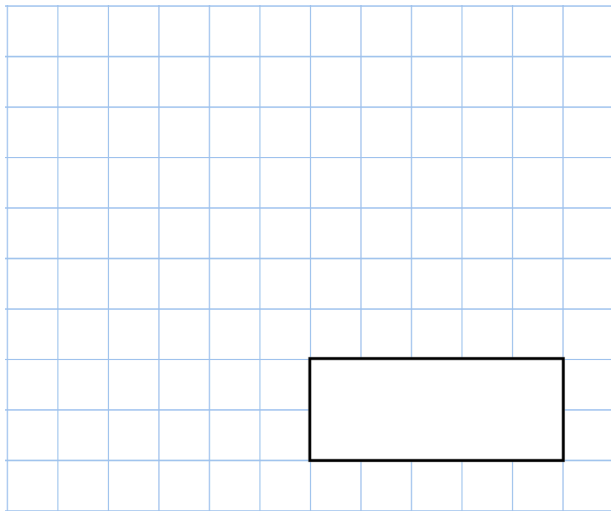
The numbers on the opposite faces add up to 7.

Write the numbers on the net of the cube.

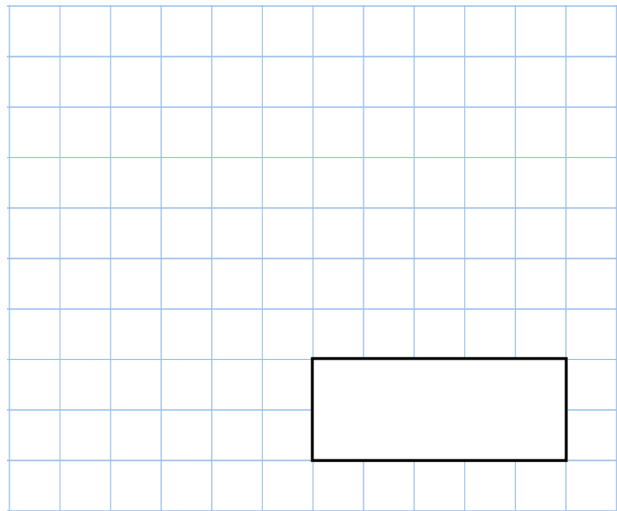


**19th March**

$$10 - 1.11$$



$$4^3$$



6cm



2cm

Four rectangles identical to the one above are put together to make a large shape.

Work out the perimeter of the larger shape



Write these numbers in order of size
Start with the smallest number.

60% $\frac{1}{2}$ 0.3 $\frac{3}{4}$ 0.4

Each member of a club is going to receive a badge.

There are 140 members.

The badges are sold in packs of 9.

Work out the least number of packs of badges that need to be bought.

**21st March**

$$1.4 \div 100$$

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$$1.09 + 1.2 + 1.44$$

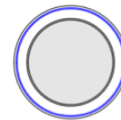
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The same type of dinner plate is sold in small packs or large packs.

Which is better value for money?

Small pack
Contents
3 plates

£5.25



Large pack
Contents
12 plates

£21.24

Jacob has measured the three angles in a triangle.

Two of his measurements are 45° and 70°

What is the third measurement?

Shannon has £400

She gives 10% to her sister.

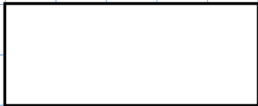
She gives two fifths to her mum.

How much does she have left?



22nd March

$$8.5 \div 5$$



$$4,225 \times 4$$

Barnsley Rovers started a football season on -10 points.

Each win is worth 3 points.

Each draw is worth 1 point.

Each loss is worth 0 points.

Over the season, Barnsley Rovers won 11 matches, drew 6 matches and lost 3.

How many points did they finish with at the end of the season?



Find two different **square numbers** that have a total of 100

$$\boxed{} + \boxed{} = 100$$

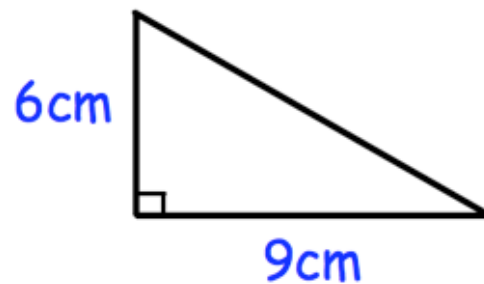


23rd March

$$80,008 - 1,020$$

$$\frac{1}{2} + \frac{1}{8}$$

Find the area of this triangle



The first four terms in a sequence are

13 9 5 1

What is the seventh term?

Sophie buys a caravan for £10,000

She pays a deposit of £3000 and then pays the rest over 20 equal monthly payments.

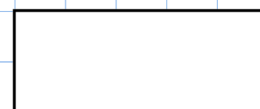
How much is each monthly payment?

**24th March**

$$\begin{array}{r} 47 \\ \times 37 \\ \hline \end{array}$$



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



Write down 3 different fractions that are equivalent to $\frac{3}{5}$

Arrange these measurements in order. Start with the smallest.

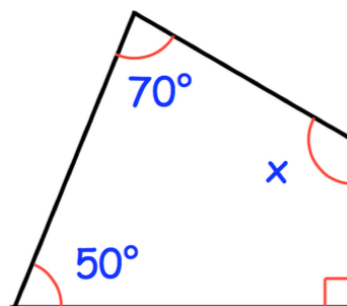
$$\frac{1}{4} \text{ m}$$

5.5cm

75mm

30cm

Find the size of angle x



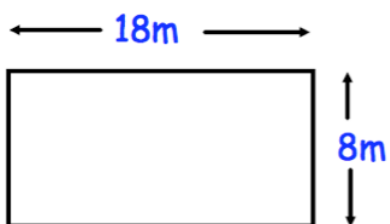
**25th March**

$$\frac{\boxed{}}{7} = \frac{24}{42}$$

$$1.25 \times 1,000$$

Rosie says that 21 is a prime number.

Is Rosie correct?



Not drawn
to scale

Mrs Jenkins is a chicken farmer.
Her chicken pen is 18m long and 8m wide.
Each chicken needs 3m²

How many chickens can Mrs Jenkins
keep?

Name: _____



26th March

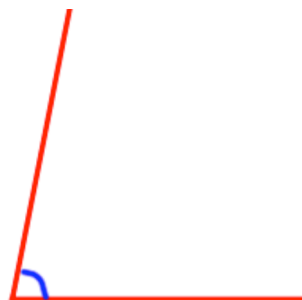
75% of 320

$\frac{5}{12}$ of 3,348

Round 15.0439 to 2 decimal places

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Measure the size of this angle



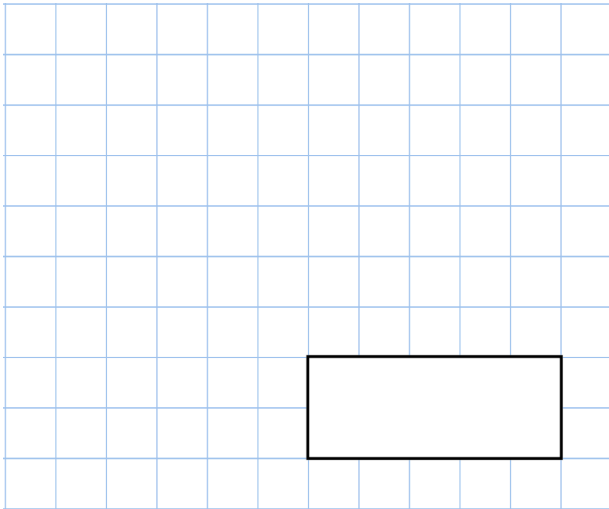
Cookstown Rugby Club play 20 matches and win 17 of the matches.

What percentage of the matches did Cookstown win?

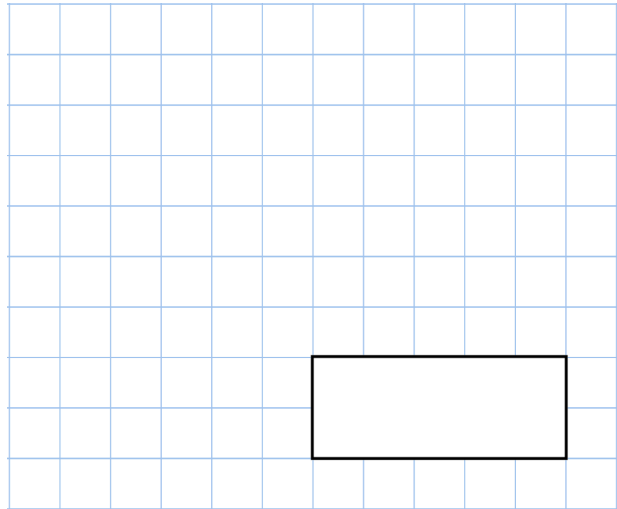


**27th March**

$$8^2$$

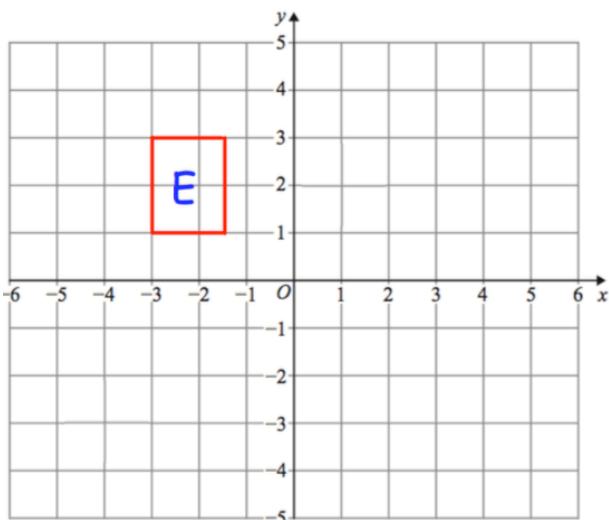


$$\frac{11}{12} - \frac{1}{4}$$



How much greater is the population of England than the combined population of Scotland and Wales?

Country	Population
England	55,128,200
Scotland	5,408,923
Wales	3,113,674



The rectangle A is translated
4 **right** and 3 **down**

Draw the rectangle in its new position

Plot the point $(-4, -1)$



28th March

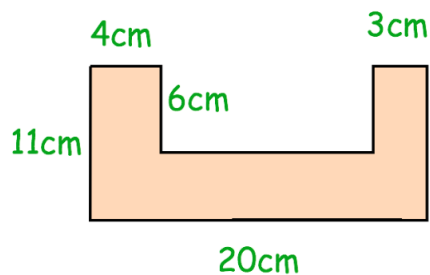
$$665 \div 7$$

$$0.05 \times 10$$

Megan says “when you square a number, the answer is always bigger.”

Show she is wrong.

Work out the perimeter of this shape



Rocco has a pack of cards numbered 1 to 60.

He picks four different cards.

Exactly three of the cards are multiples of 15.

Exactly three of the cards are even.

All four numbers add up to less than 110

Write what the numbers could be

10

0

Name: _____



31st March

$$\begin{array}{r} 78943 \\ + 16978 \\ \hline \end{array}$$

$$8 \overline{) 8992}$$

Write the number 900 in Roman numerals



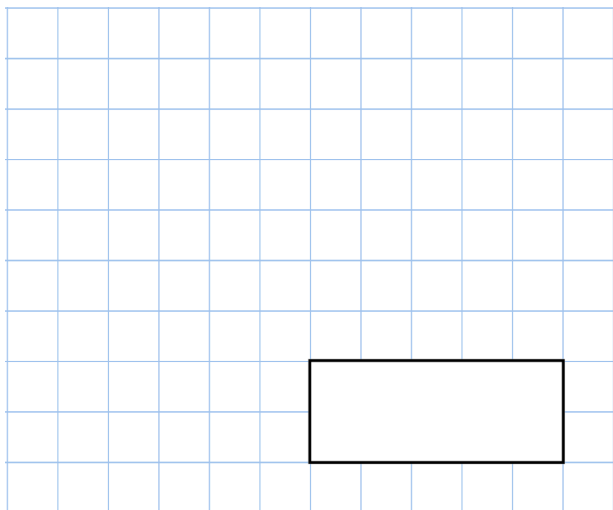
Draw a 125° angle

Ellie says that all the factors of 16 are **even**

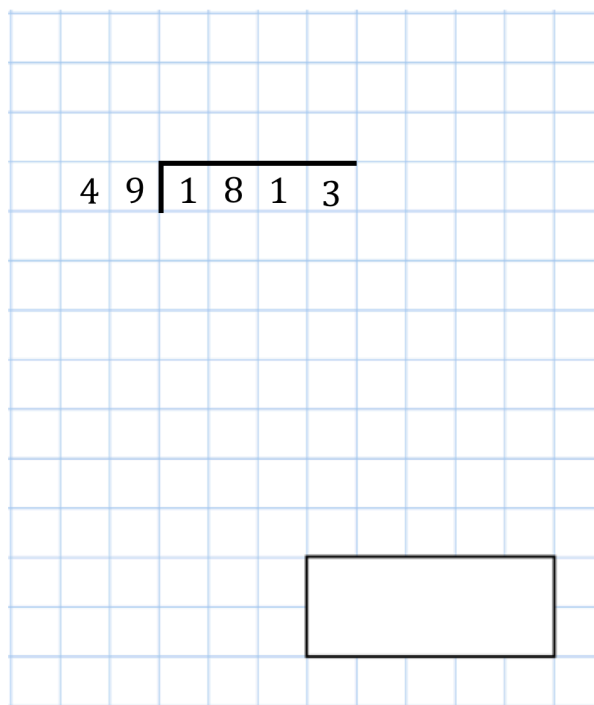
Why is Ellie wrong?

**1st March**

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

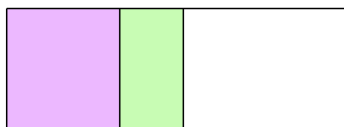


4	9	1	8	1	3
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In this rectangle, $\frac{4}{9}$ is shaded purple

$\frac{1}{5}$ is shaded green.

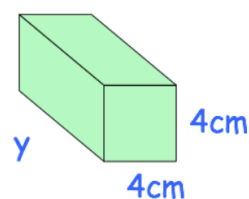
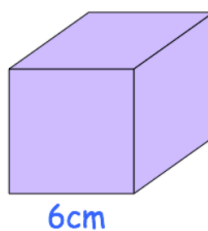


What fraction of the rectangle is not shaded?

$$w = 17$$

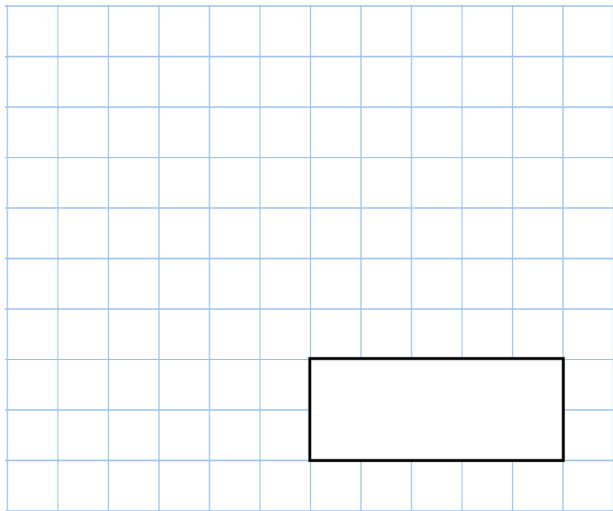
Work out $6w + 7$

The volume of the cube and the cuboid are equal.
Find the length of the cuboid.

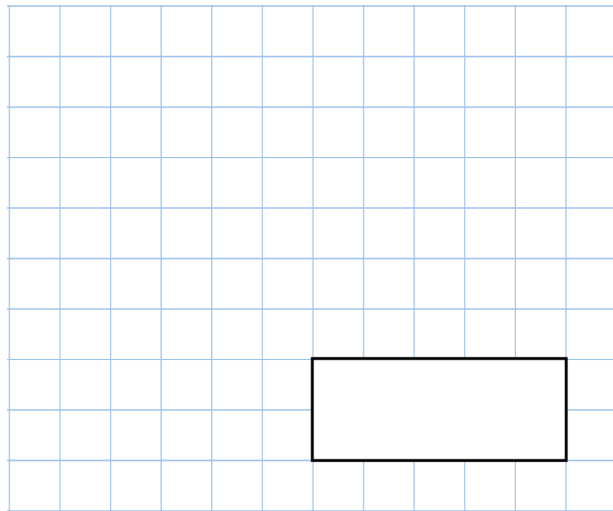


**2nd March**

$$15\% \times 2,000$$

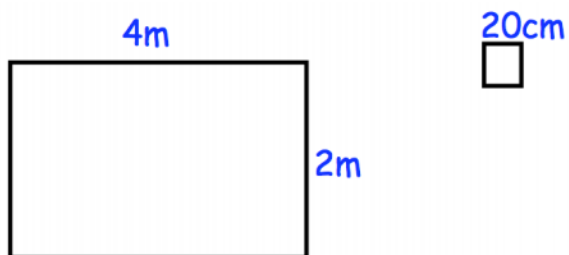


$$2\frac{1}{2} \times 17$$



Mr Harris is tiling his bathroom floor.
The bathroom floor is a rectangle
measuring 4m by 2m.
Each tile is 20cm by 20cm

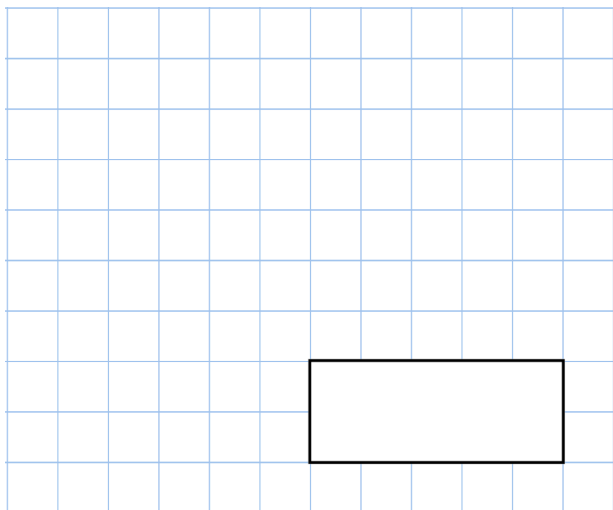
How many times does he need?



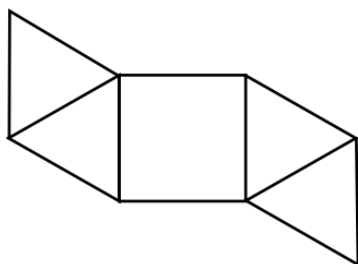
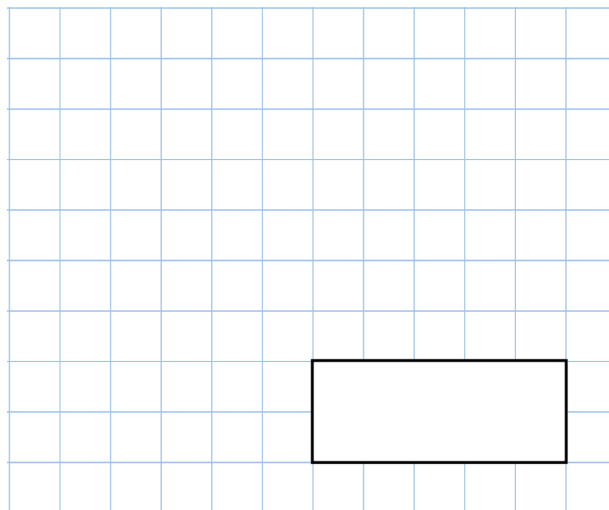
Find the lowest common multiple (LCM) of
5, 6 and 9

**3rd March**

$$0.07 \times 200$$



$$9\% \text{ of } 300$$



This is a net for which 3D shape?

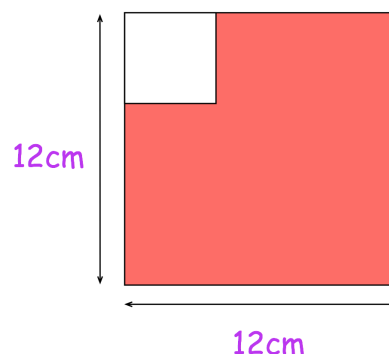
Concrete is made by mixing **cement**, **sand** and **gravel** in the ratio 1 : 2 : 3

How many kilograms of **cement** and **gravel** are needed to mix with 30 kilograms of sand?

_____ kg of cement _____ kg of gravel

A white square is painted in one corner of a red square.
Each side of the white square is **a third** of the length of the red square.

What is the area of the red section?





5th March

$$\frac{7}{10} \div 2$$

$$4,871 \times 26$$

A 20x20 grid with a black rectangle in the bottom right corner. The rectangle is 10 units wide and 5 units high, starting from the 10th column and 15th row, and ending at the 20th column and 20th row.

Some students sit a test.
The test is out of 40 marks

Martin 30 marks

Gina 35 marks

Ricky 31 marks

Vicky 38 marks

Chloe 29 marks

The pass mark is 80%

Work out the fraction of the students that passed the exam.

A toy grows when placed in a bucket of water.

The toy doubles in size every minute.

After 5 minutes the toy will half-filled the bucket.

After how many minutes will the toy fill the bucket?

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.

$$80 - 24 \div 8$$

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

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How much did the car cost Jenny in total?

8 9 10 11 12 13 14 15 16

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

Barbara

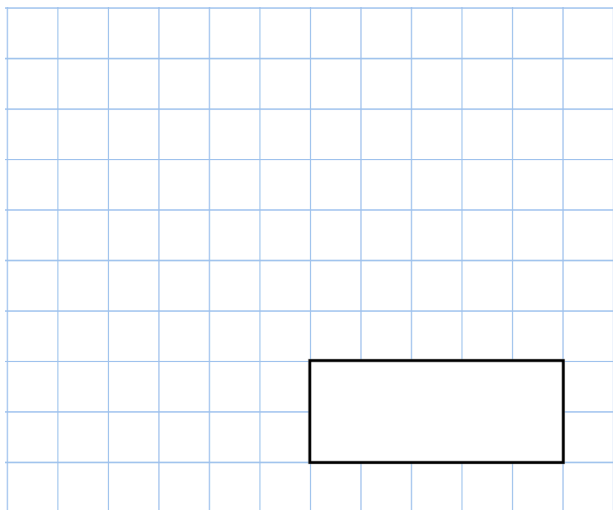
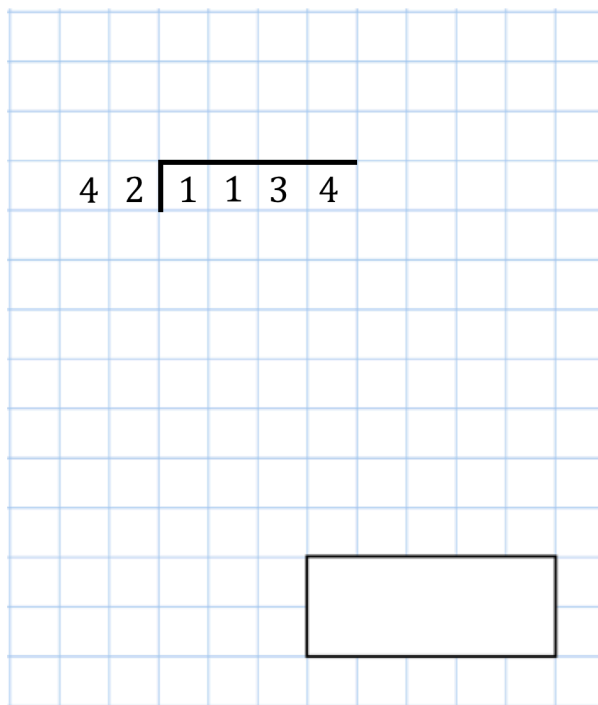
10

Denise

10

**7th March**

$$160 \times \frac{3}{5}$$

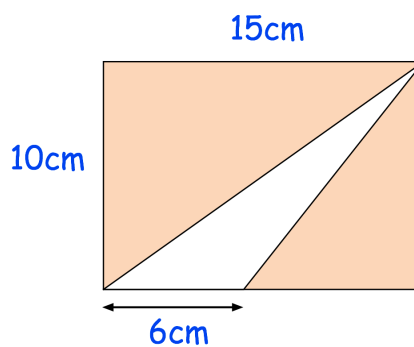
4 2 1 1 3 4

Mervyn drives for 13 hours.

His car uses 6.72 litres of diesel an hour.

How many litres of diesel does he use?

Find the shaded area



Find the highest common factor (HCF) of 28 and 70.

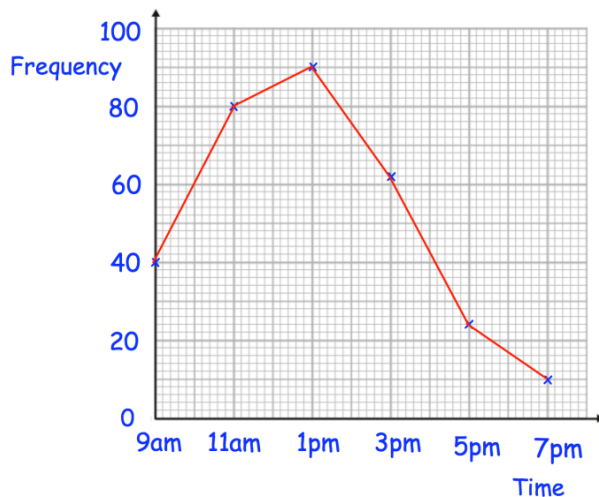
**8th March**

$$5,030,124 - 3,111,809$$

$$\begin{array}{r} 3 \ 7 \ 9 \ 1 \\ \times \quad \quad 3 \ 1 \\ \hline \end{array}$$

Sally recorded the number of cars in a car park at 9am, 11am, 3pm, 5pm and 7pm.

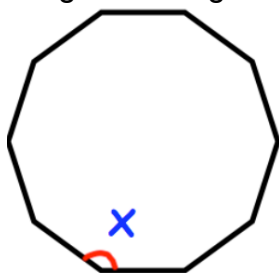
The line graph shows her results



Estimate the number of cars in the car park at 10am.

Estimate the number of cars in the car park at midnight

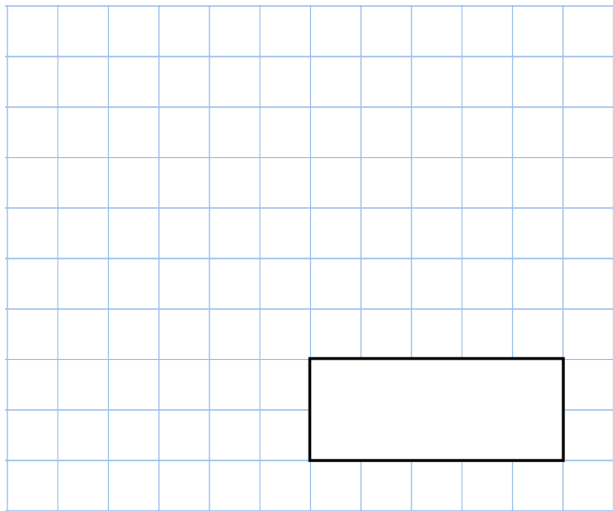
Shown is a regular decagon



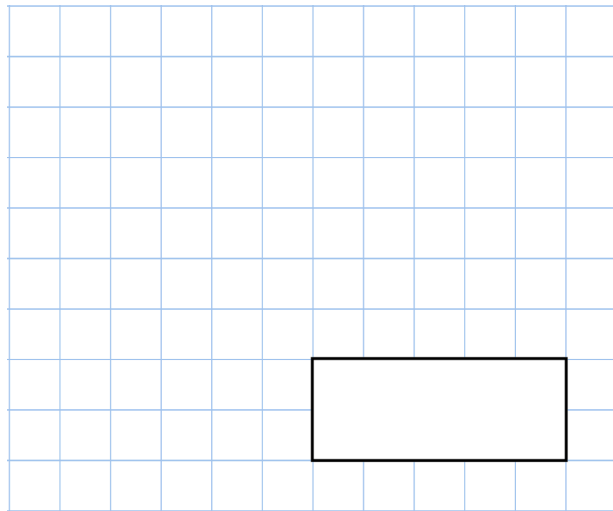
Find the size of angle x

**9th March**

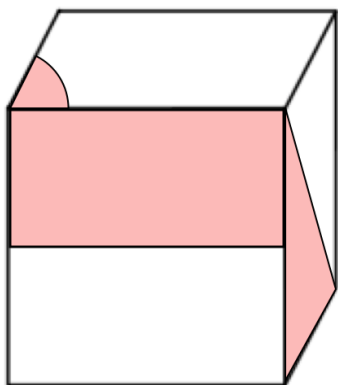
$$27 \times 3.1$$



$$5\% \text{ of } 510$$

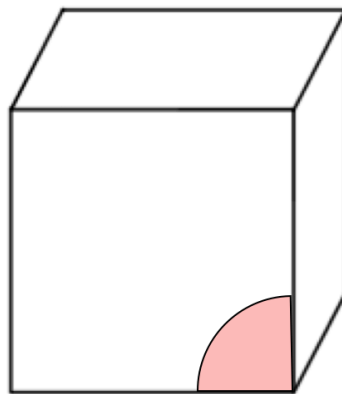


This cube has shapes drawn on three of its faces



The cube is turned to look like this.

Draw and shade the missing shapes

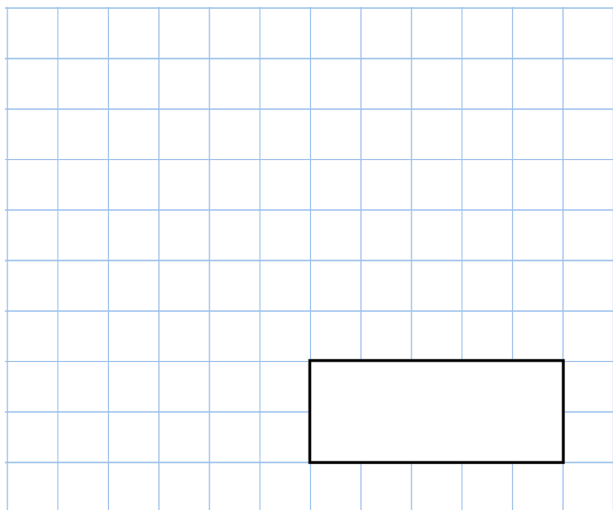


A farmer says he has 2,500 sheep to the nearest 100.

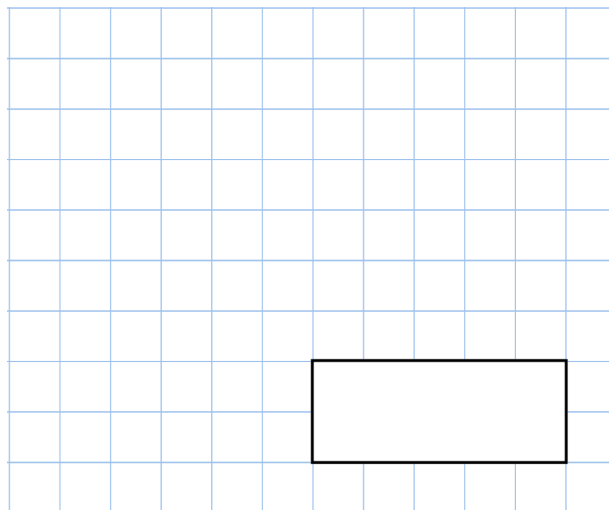
What is the greatest possible number of sheep that he has?

**10th March**

$$\frac{4}{7} \times \frac{2}{3}$$

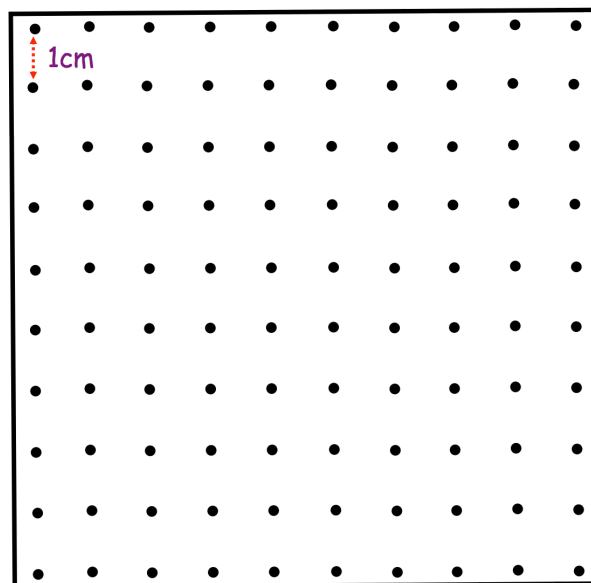


$$40 \div (2 + 3)$$

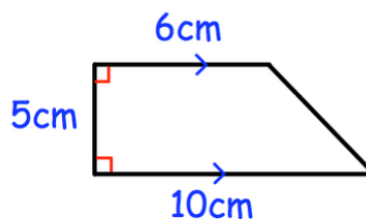


On the grid, draw a triangle with **only one** side of 4cm and a 90° angle

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



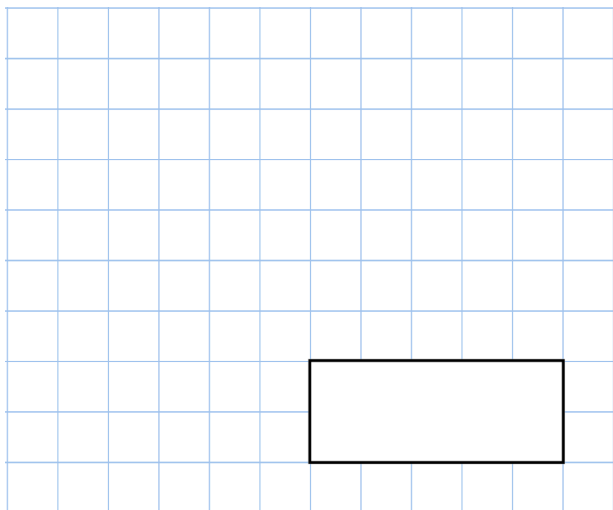
Work out the area of the trapezium



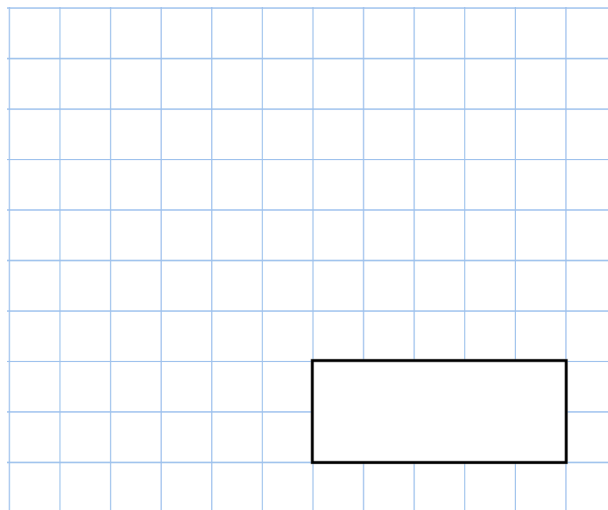
A 10x10 grid with a black rectangle in the bottom right corner. The rectangle is 4 units wide and 2 units high, spanning from the 6th column to the 10th column and from the 8th row to the 10th row.

**12th March**

$$0.7 \times 5,000$$



$$1,309 \div 17$$

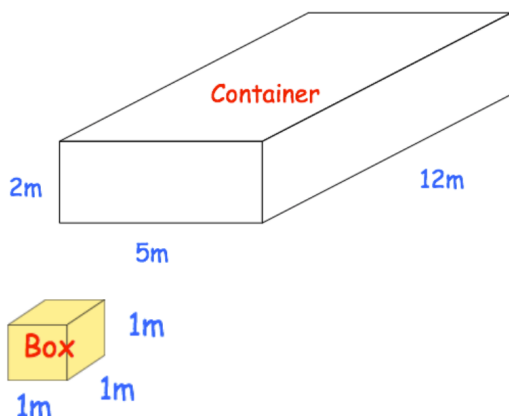


Find the lowest common multiple of 16 and 20.

A cuboid container is keep boxes.

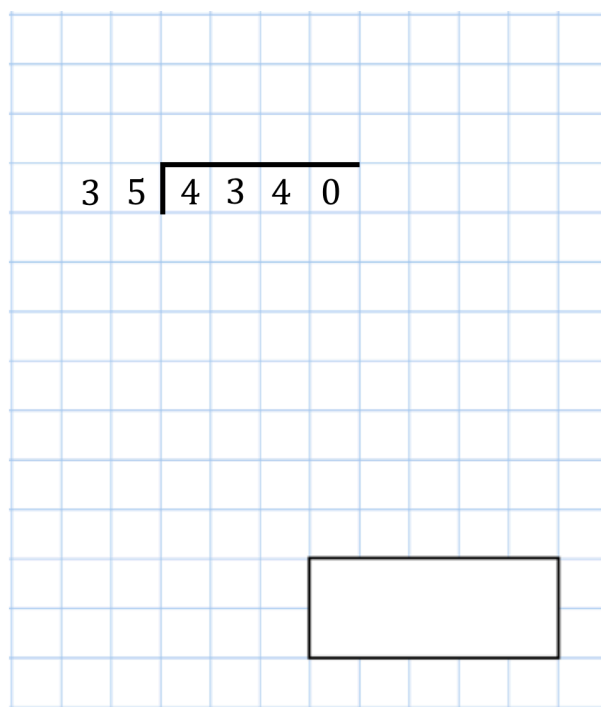
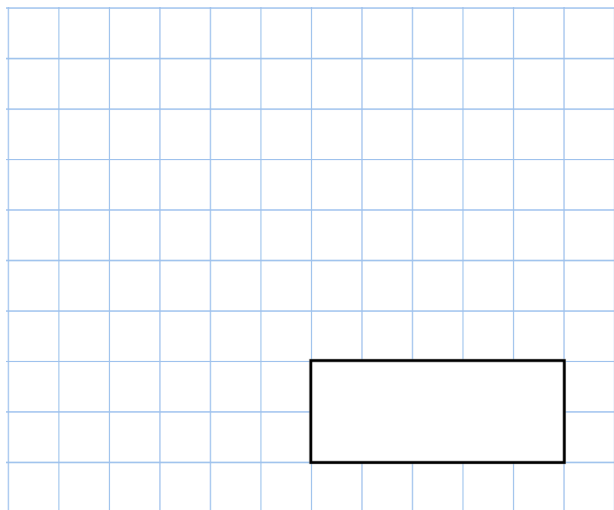
Each box is a cube with side length 1m.

How many boxes can fit into the container?



**14th March**

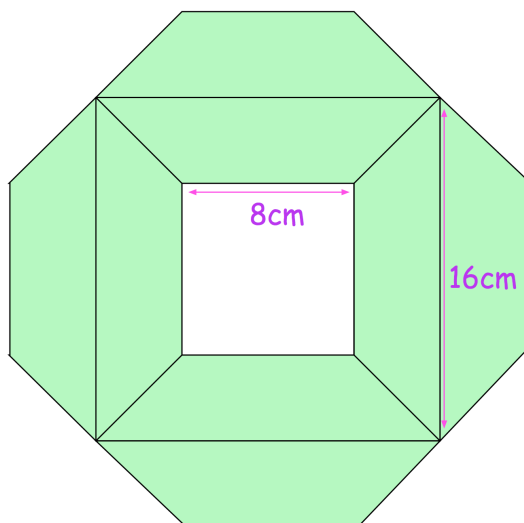
$$1.83 \times 9$$



James and Mark share 55 sweets in the ratio 2:3.

How many sweets does Mark get?

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



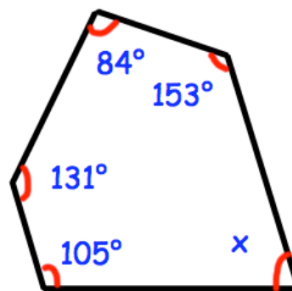
Find the area of one trapezium

Find the total area of the logo.

**15th March**2 4 3 8 8 8

$$\frac{1}{6} \div 3$$

Find the size of angle x



$$c = 14$$

Work out $3c - 19$

Shown are four number cards.

The mean of the four numbers is 12.

Find the missing number.

13

5

8

$$\frac{\begin{array}{c} \cdot \cdot \cdot \\ \cdot \cdot \cdot \\ \cdot \cdot \cdot \end{array}}{180} = 0.1$$
A diagram on a grid background. The grid consists of light blue lines forming a square pattern. A rectangle with a thick black border is located in the lower right area of the grid. The rectangle is approximately 4 units wide and 2 units high.A 10x10 grid with a black rectangle in the bottom right corner. The rectangle is 4 units wide and 2 units high, spanning from the 6th column to the 10th column and from the 8th row to the 10th row.

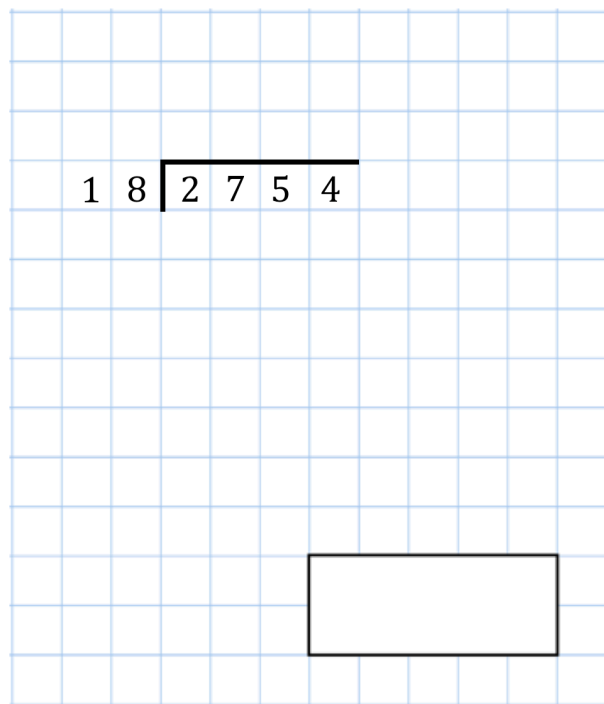
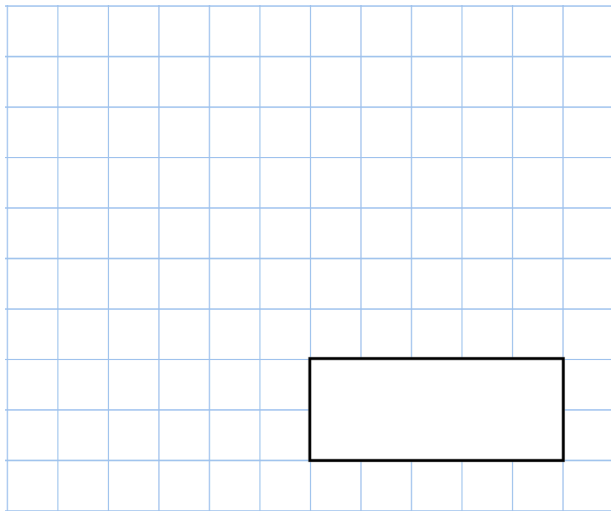
	Side Lengths			
Rectangle	10cm	6cm	10cm	6cm
Rhombus	8cm			
Parallelogram	11cm			
Kite	9cm			

$$6y + 4 = 3y + 22$$

www.corbettmaths.com

**20th March**

$$1.09 \times 13$$



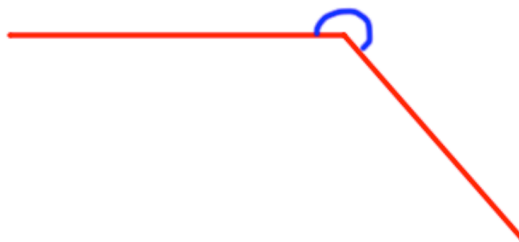
Two glasses contain orange juice.

A 400ml glass is 40% full.

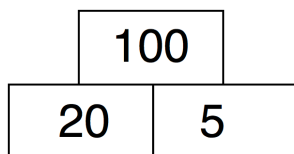
A 300ml glass is half full.

Which glass contains less orange juice?

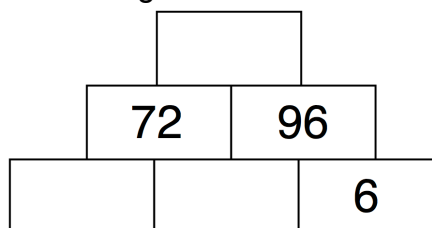
Measure this reflex angle



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



Find the missing numbers



**22nd March**

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

$$-18 - 25$$

Adam is organising a charity concert at school.

The concert is sold out.

The hall holds 35 rows of 42 seats.

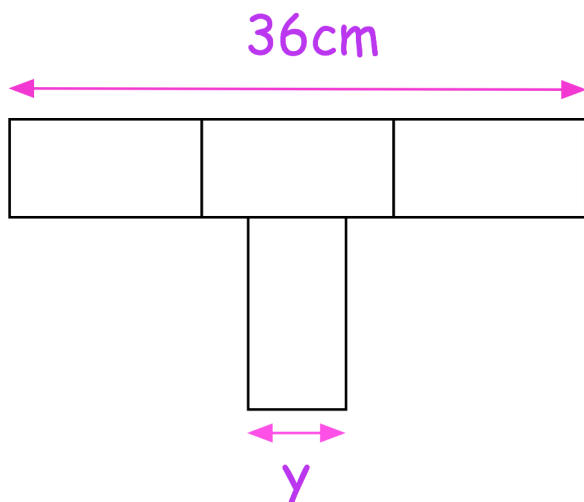
Each person pays £18

How much money will Adam raise for charity?



Here is a shape made from 4 identical rectangles.

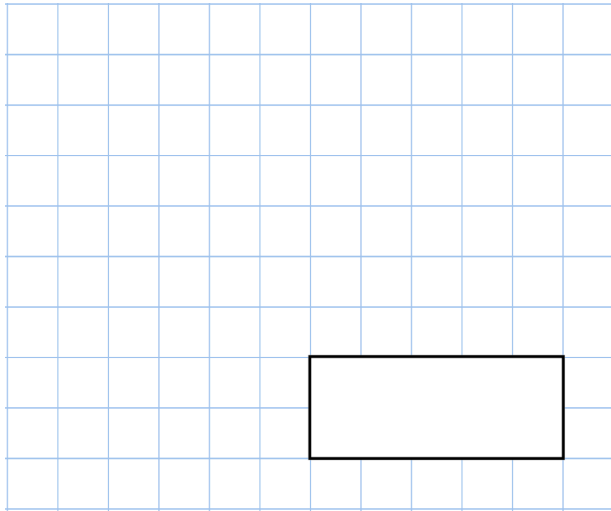
The total area is 336 cm^2



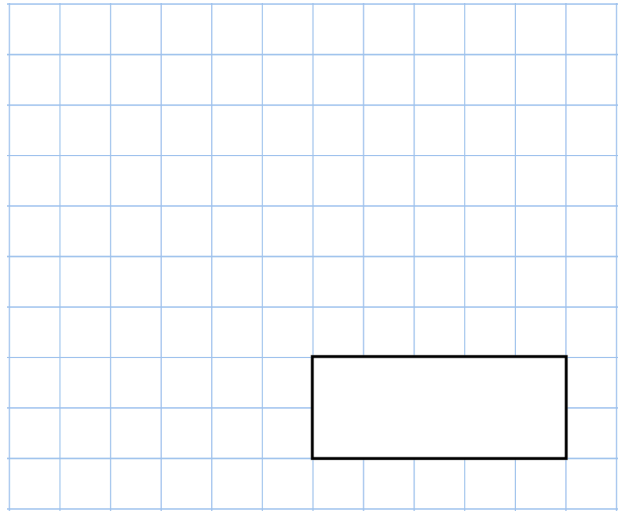
Work out the value of y

**24th March**

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



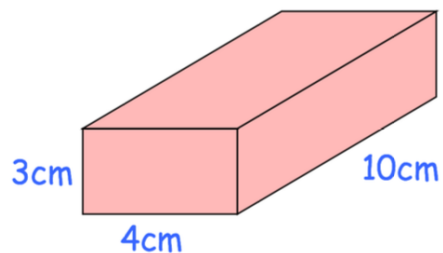
$$450 \times 8 = 25 \times \boxed{}$$



A chocolate bar contains 0.47153g of salt.

Round this to three decimal places.

Work out the volume of this cuboid



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 March

$$4.86 \div 6$$

A 10x10 grid of squares. A black rectangle is drawn in the bottom right corner, spanning 4 squares horizontally and 2 squares vertically. The rectangle is located in the bottom-right quadrant of the grid.

$$\frac{7}{9} \times \frac{2}{3}$$

A 10x10 grid of squares. A black rectangle is drawn in the bottom right corner, covering the last 4 columns and 2 rows of the grid. The rectangle is 4 units wide and 2 units high.

This graph helps change UK pounds into Polish złoty



Change £20 into Polish złoty

Change 450 złoty into UK pounds.

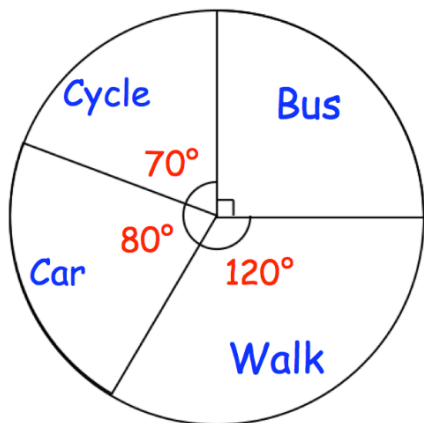
Kelsey says that she has drawn a triangle where **"two of the three angles are obtuse."**

Explain why Kelsey must be incorrect.

**29th March**1 9 3 2 3

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

The pie chart shows how a group of 72 students travel to school.



How many students get the bus to school?

What fraction of the students travel by car?

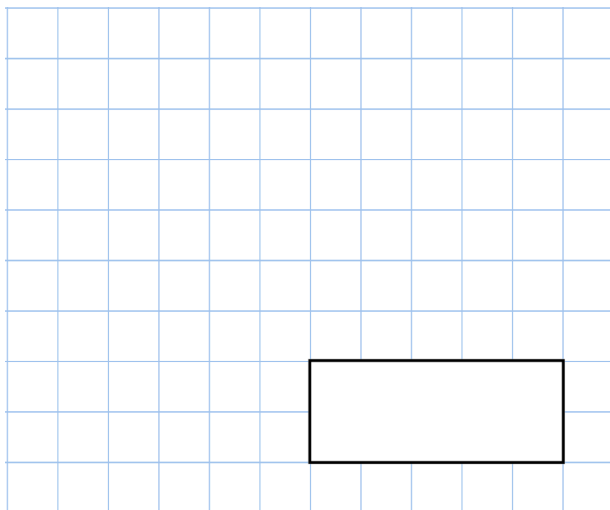
The formula $F = 1.8C + 32$ can be used to convert between Celsius and Fahrenheit.

Work out C when $F = 14$

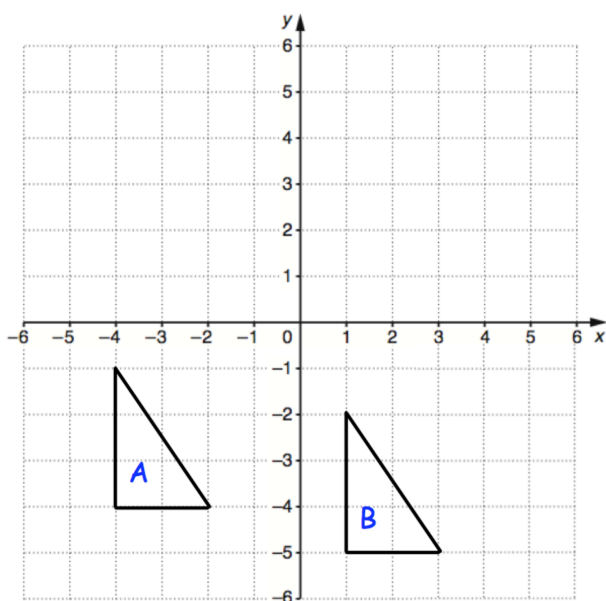
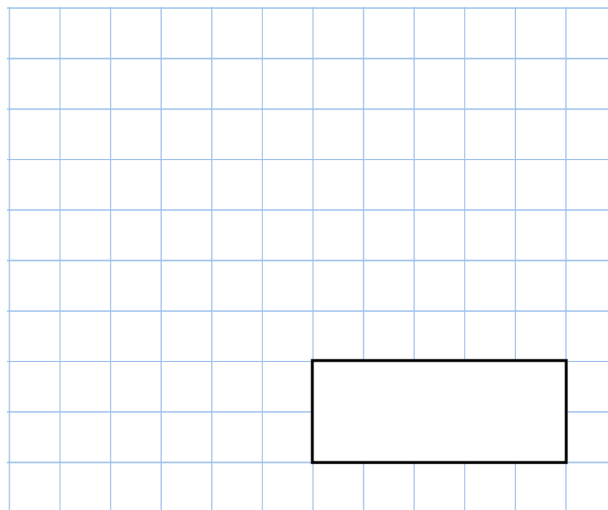


**30th March**

$$\frac{9}{13} \text{ of } 741$$



$$800 \times 30\%$$



Describe the translation that takes shape A to shape B.

Reflect triangle B in the x-axis.

Solve the equation

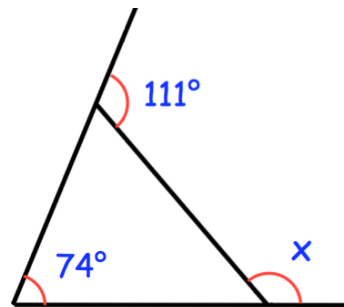
$$3y - 1 = y + 7$$

**31st March**

$$325 \div 13$$

$$700 - 100 \times 5 + 90$$

Work out the size of angle x



Helen has used 80% of the coffee in a jar.

120 grams of coffee is left in the jar.

How much coffee does a full jar hold?

M is the midpoint of the line PQ.

Find the coordinates of Q

