

| | | Key Stage 2 Weekly Learning Gui | de |
|---------------------------------|-----------|---|---|
| Year: 6, Elm and Oak | | Theme: Rainforest Survival | Week beginning: 30/03/2020 |
| | | Daily Activities | |
| Wake up & Shake up 20 - 30 mins | garden. 1 | | r dance, practise your football skills in the vy-uppies can you do over the course of a nk for. |
| Reading - 20 mins | | | ine. Can you write a book review? Use the cogle Classroom and via MarvellousMe |
| Maths- 30 mins | _ | • | rise a key skill listed below. Have a look on oject: investigating angles and shapes. |
| BREAK | Eat a he | althy snack, exercise or relax with so | ome mindfulness. |
| Times Tables- 10 - 15 mins | _ | Time Tables Rock Stars or Mathlet wer your TTRockstars speed to unde | ics to hone your times tables and arithmetic r two seconds per question. |
| Spelling- 5 - 10 mins | | your weekly spelling list and put your illy short story using ALL your spellin | r spellings into sentences. Challenge: can you ng words? |
| Writing- 30 mins | • | e a diary of your day or a description Complete a character description of | of an interesting event from your daily a favourite book character. |

| Key Mathematical skills | Key Reading skills | Key Writing skills |
|--|--|--|
| 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 | 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 nonfiction texts | 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. semicolons, 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/downlo
ads/Starters-for-STEM.pdf. Share your Science projects
(with adult help) via Twitter with Miss Penfold or Mr S.

Ar

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

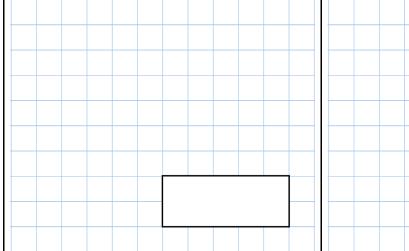
laughable respectable inevitable arguably noticeably regrettably reliably comfortably collectible convertible

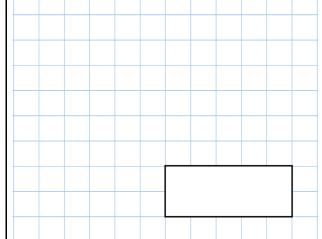


1st March

 45×36

 $2\frac{1}{2} = \frac{1}{2}$





Holly is saving money for a guitar that costs $\mathfrak{L}50$

In January, she saves £15.15

In February, she saves £8.82

In March, Holly saves £13.37



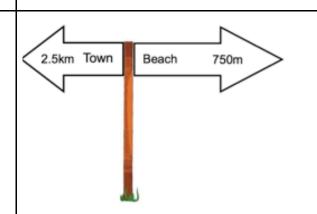
Work out how much more money does Holly need to save?

Work out the mean of these numbers

120 216 81

Work out the distance between the town and the beach.

Include units.

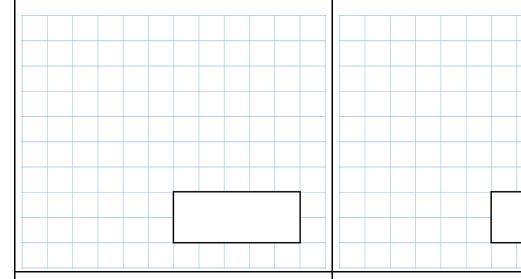




2nd March

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

80,001 - 405



Here is a rule for the cost of a taxi

How much would a 5 mile journey cost?

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

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

| Name: | | |
|-------|--|--|

Primary 5-a-day

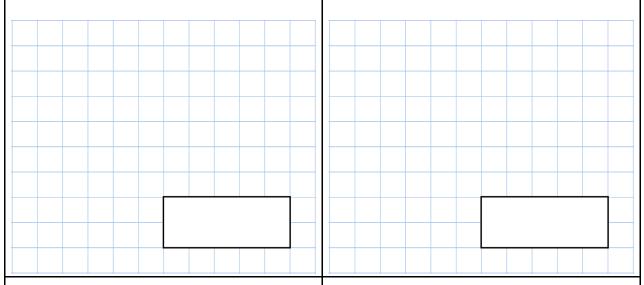
| Gol | d |
|-----|---|
|-----|---|



3rd March



 $11 \times 13 \times 7$



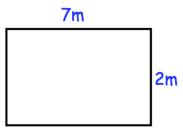
Arrange the landmarks in order, from closest to furthest.

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.





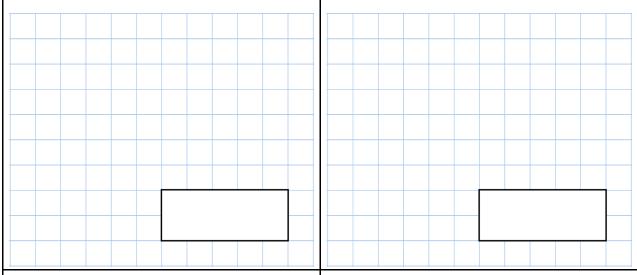
Each tile is a 50cm by 50cm square. Each tile costs £3.

Work out the total cost of tiling the floor.



$$6,201 \times 6$$

$$560 \div 100$$



Arrange these numbers in order, starting with the largest.

0.342 0.075 0.256 0.34 0.6 0.4

Jackie buys 5kg of flour.

She is making pizzas that each need 300g of flour.

What is the maximum number of pizzas that Jackie can make?

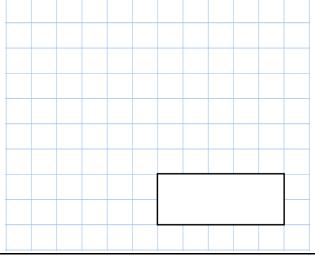
How much flour will Jackie have left?





11²

 $\frac{3}{20} + \frac{7}{10}$



Circle the prime numbers in this list

4 8 15 17 21 23

Large pizzas cost £7.75 each small pizzas cost £5.55 each

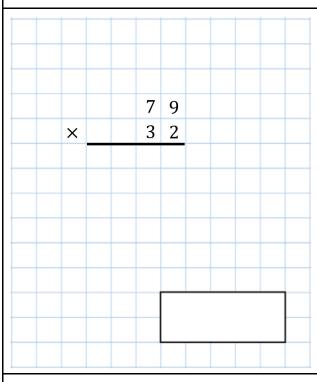
Five friends together buy one large pizzas and three small pizzas.

They share the cost equally.

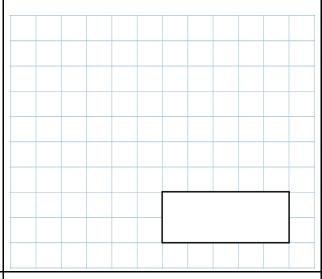
How much does each person pay?

Write the two missing digits to make this **long multiplication** correct

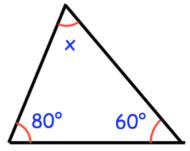




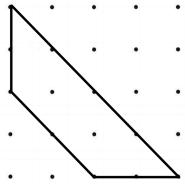
50% of 53



Find x



Paige draws this shape on a grid



. . . .

.

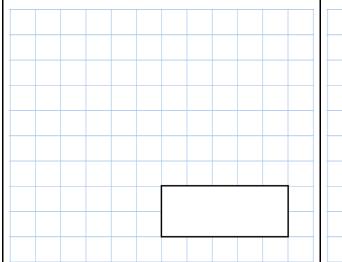
She turns her grid one quarter turn anticlockwise

Draw the shape in its new position after the turn



$$\frac{3}{4} = \frac{9}{100}$$

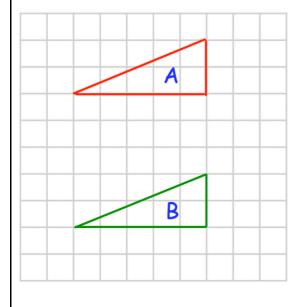
 1.6×100



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

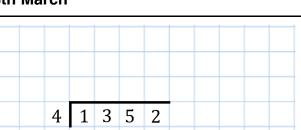
Triangle A has been translated

squares to the right and

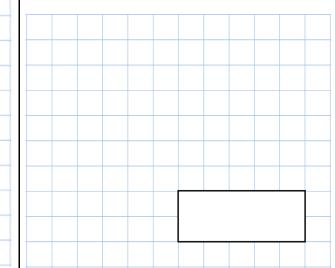
squares upwards

Translate triangle B 2 squares left and 2 squares upwards

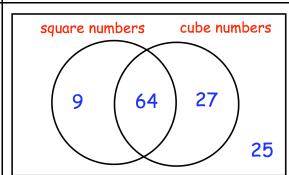




| 1 | . 3 | 1 |
|----------------|------------------|----------------|
| - 5 | $+\frac{10}{10}$ | - 5 |



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

 $\frac{3}{2}$ of the counters are white

What fraction of the counters are blue?

Olivia chooses a whole number

She divides it by 5 and then multiples by 2

She then subtracts 35 from this result.

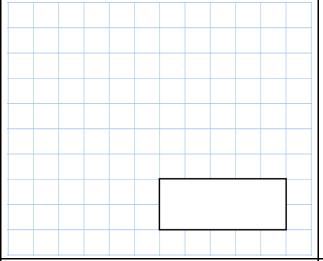
Her answer is -1

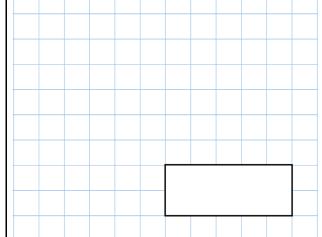
What was the number she started with?



92

987 + 1,454 + 5,008



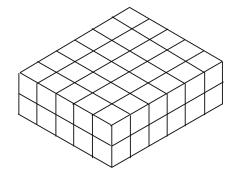


Martha says that 7.2 is less than $7\frac{19}{100}$

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.

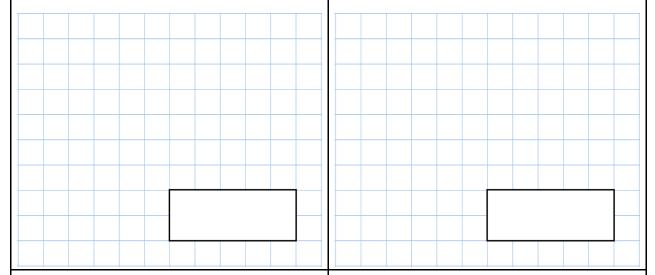
How many degrees does she turn through in the jump?



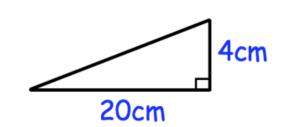


| 8,305 | + | 1,956 |
|-------|---|-------|
|-------|---|-------|

43



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.

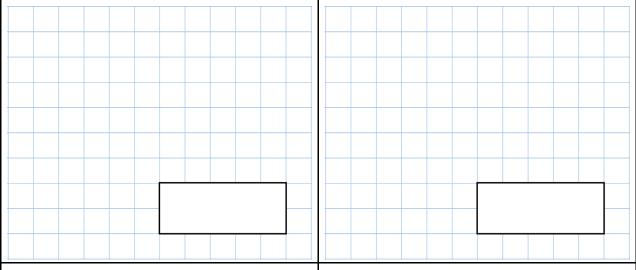
Write down the two numbers.



| h March |
|---------|
| h March |

61 × 19

 $4,067 \div 7$



10% of the sweets in a bag are green.

If there are 500 sweets in the bag, how many are green?

| Draw | а | 45° | angle |
|------|---|-----|--------|
| Diaw | а | TJ | arigic |

Three numbers have a mean of 10.

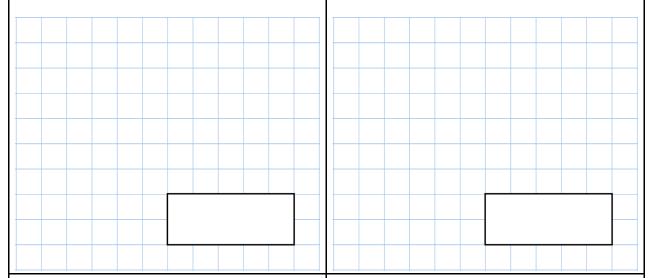
All three numbers are different and none of the numbers is 10.

Write down 3 possible numbers on the cards



$$\frac{12}{5} = \frac{12}{15}$$

 11^2



Round 4.361 to one decimal place

A packet of rabbit food contains 2.4 kilograms of rabbit food.

Roisin feeds her rabbit 80 grams of food each day.

How many days does the packet of rabbit food last?



50 people go on a coach trip to Blackpool. It costs £9 including a map.

Some people don't want a map and they pay only £8.

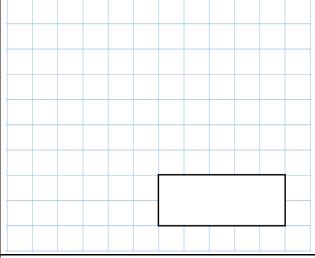
The 50 people pay a total of £410

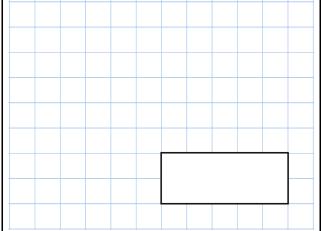
How many people don't want a map?



$$5.12 \times 10$$

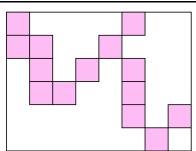
$$\frac{3}{5} + \frac{1}{10}$$



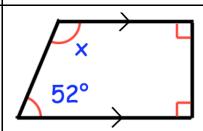


Here is a rectangle with 14 identical shaded squares inside it.

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



Find the size of angle x

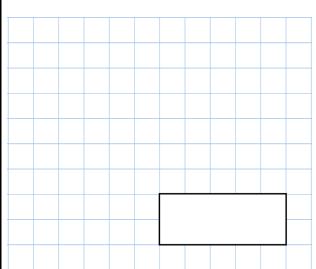


Arrange in order, from smallest to largest

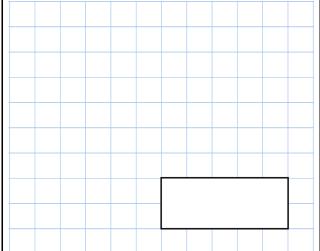
$$\frac{1}{4}$$
 0.19 0.3 26% $\frac{1}{5}$



$$5.7 + 2.025$$



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



Here is part of a train timetable

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

How long is the journey from Southville to Leek?

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

| Мо | 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 | | | |

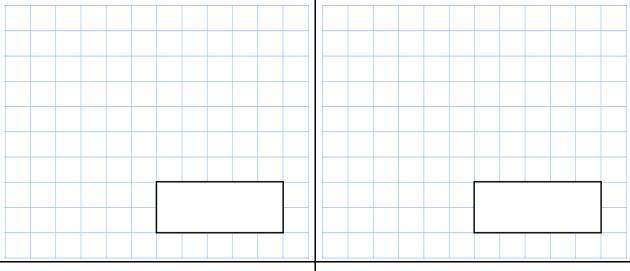
How long does Reece spend on the train in November?

Give your answer in hours and minutes

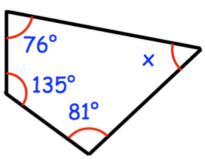


| 50% of 380 |
|------------|
|------------|





Find the size of angle \boldsymbol{x}



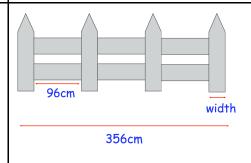
The cost of a plumber is found by

£15 \times number of hours

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

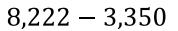
Work out the total cost.

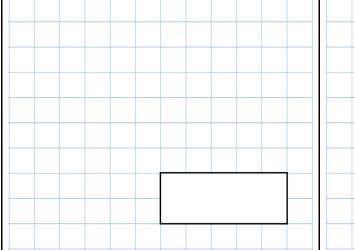
A fence has four posts, equally spaced. Each space between the posts is 96cm Work out the width of each post.

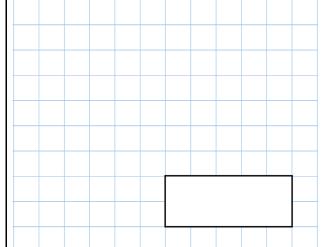




75% of 20







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

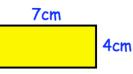
Work out the next two numbers

The sequence then follows the rule

2.65 3.59 6.24 9.83

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

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



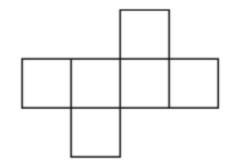


| ? | |
|---|-----|
| | 2cm |

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.

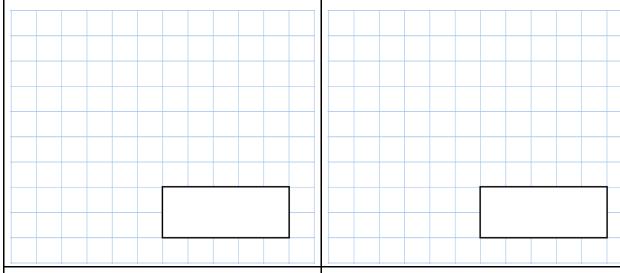
Write the numbers on the net of the cube.





$$48 \times 40$$

$$1,675 \div 100$$



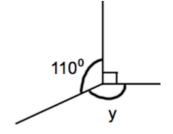
Jo has 80 sweets.

She gives 75% of the sweets to her friends.

How many sweets does Jo have left?



Work out the size of the angle y.



Write the number 125 in Roman numerals





Name: ____ 18th March Simplify $\frac{45}{50}$ 13^2 List all the factors of 28 50 people attend a wedding. Frequency Meal 7 people had the pork. Beef 50% of the guests had chicken. Chicken Twice as many guests had beef than Pork vegetarian meals Vegetarian Complete the table **Total = 50** What fraction of the guests had pork? What fraction of the guests had beef?

| Name: | | |
|-------|--|--|
| | | |

Primary 5-a-day

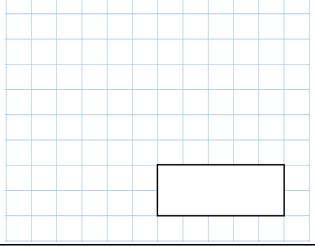
| G | വ | d |
|--------|--------------|---|
| \sim | \mathbf{c} | u |

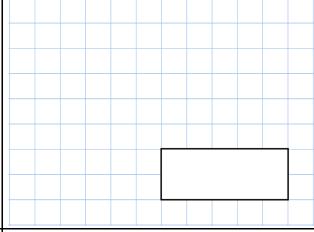


19th March

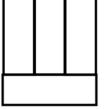
| 10 | 1 | 1 | 1 |
|----|-------|-----|---|
| TO | 1 | . I | |

43









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%

| 1 |
|---|
| 7 |

 $\frac{1}{2}$ 0.3

| 3 |
|----------------|
| \overline{A} |

0.4

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

There are 140 members.

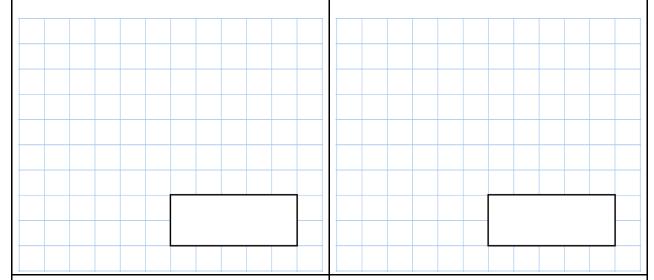
The badges are sold in packs of 9.

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



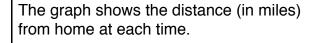
$$8 \times 8 \times 11$$

$$3,375 \div 25$$

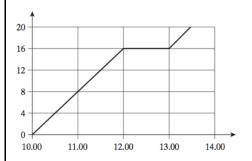


Work out the mean

8 7 15



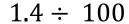
How far was Nicky from home at 11:30?



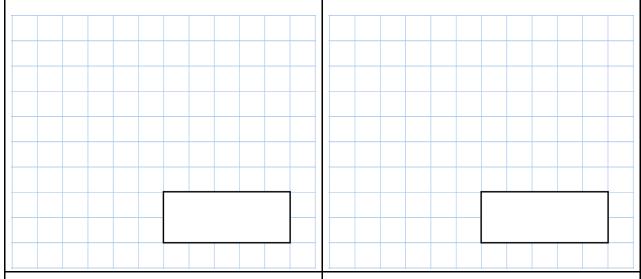
What happened between 12:00 and 13:00?



21st March



1.09 + 1.2 + 1.44



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.

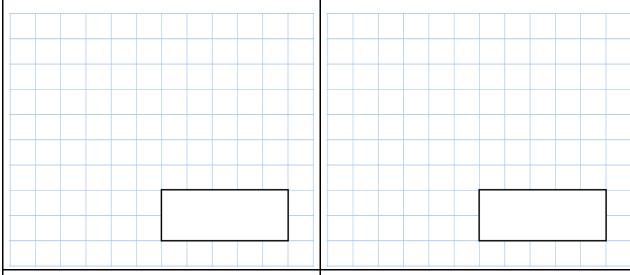
How much does she have left?



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

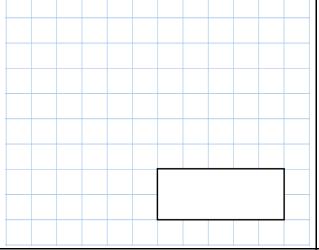


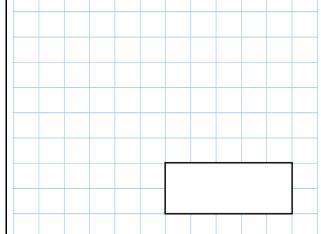


23rd March

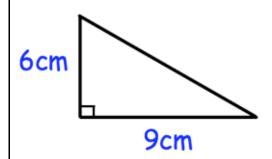
| 80,008 - | 1,020 |
|----------|-------|
|----------|-------|

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





Find the area of this triangle



The first four terms in a sequence are

13 9 5 1

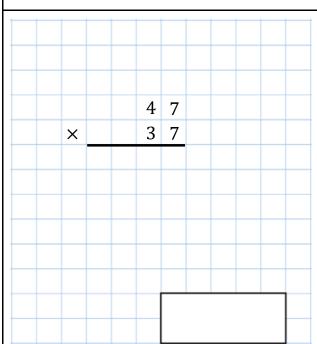
What is the seventh term?

Sophie buys a caravan for £10,000

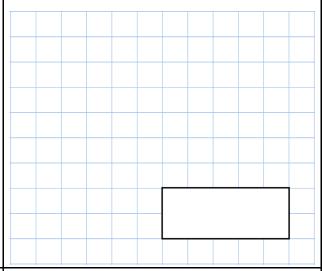
She pays a deposit of £3000 and then pays the rest over 20 equal monthly payments.

How much is each monthly payment?





| _ | 2 | | |
|---|---|---|---|
| 2 | 3 | = | 3 |



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

Arrange these measurements in order. Start with the smallest.

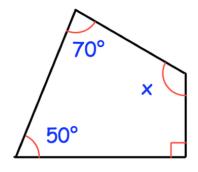
| 1 | |
|---------------|----------|
| Т | ~ |
| $\overline{}$ | m |
| 4 | |

5.5cm

75mm

30cm

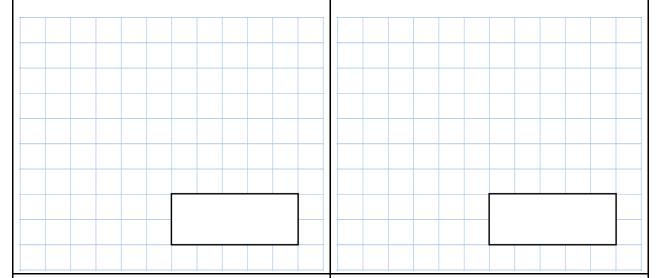
Find the size of angle x





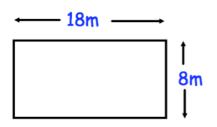
$$\frac{111}{7} = \frac{24}{42}$$

 $1.25 \times 1,000$



Rosie says that 21 is a prime number.

Is Rosie correct?



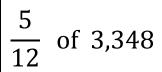
Not drawn to scale

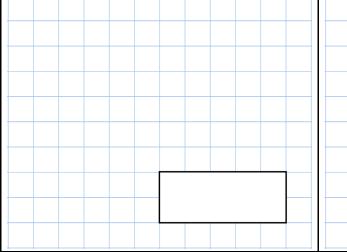
Mrs Jenkins is a chicken farmer. Her chicken pen is 18m long and 8m wide. Each chicken needs 3m²

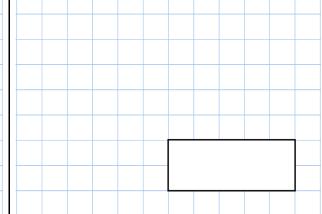
How many chickens can Mrs Jenkins keep?



| 75% of | 320 |
|--------|-----|
|--------|-----|

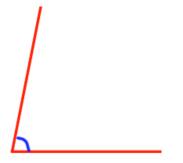






Round 15.0439 to 2 decimal places

Measure the size of this angle



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

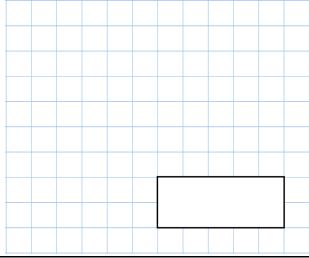
What percentage of the matches did Cookstown win?





82

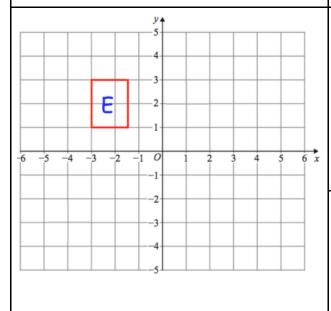
11 _ $\frac{1}{12} - \frac{1}{4}$



| Harry war also was about a the amountation of | | | | | T | | | | | | | | | |
|---|--|--|--|--|---|--|--|--|--|--|--|--|--|--|

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

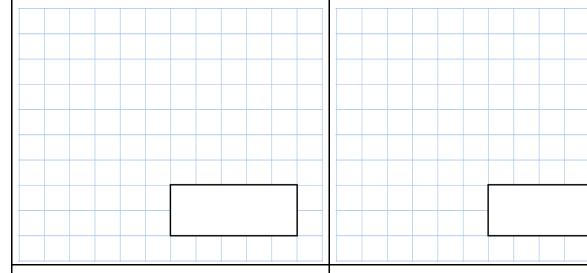
Draw the rectangle in its new position

Plot the point (-4, -1)





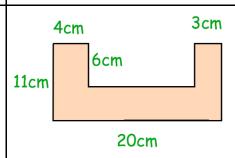




Megan says "when you square a number, the answer is always bigger."

Show she is wrong.





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

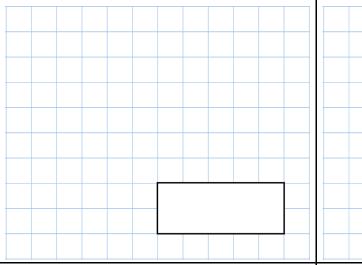
Write what the numbers could be

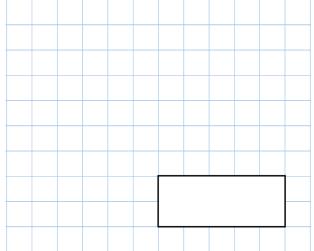




50% of 270







Here is a rule for the cost of a taxi

A journey cost £11

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

Work out how far the taxi travelled.

James sells 6 cakes for £5 Maddie sells 4 cakes for £3.50

Which is better value?

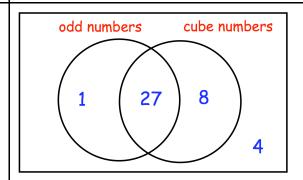








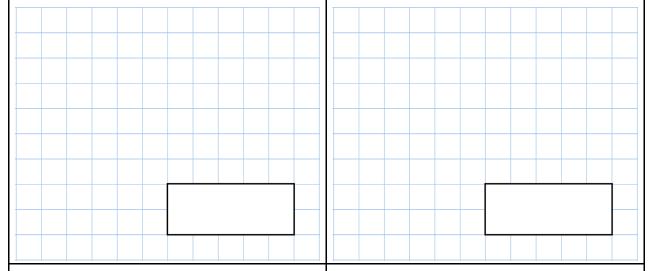
Circle the number that is in the wrong position



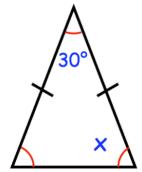


$$5.8 + 2.305 + 1.096$$

$$\frac{7}{10} - \frac{1}{5}$$



Find x



A bucket weighs 900g

When half filled with water the bucket weighs 2.5kg

Work out how a bucket filled with water will weigh.

James says that $\frac{2}{3} = 66\%$

Explain why James is incorrect.

| Name: |
|-------|
|-------|

Primary 5-a-day

| Go | ld |
|--------------|----|
| \mathbf{u} | u |



| | + | 7 | | 4 | |
|--|---|---|--|---|--|
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| | | | | | |

Write the number 900 in Roman numerals



Draw a 125 $^{\circ}$ angle

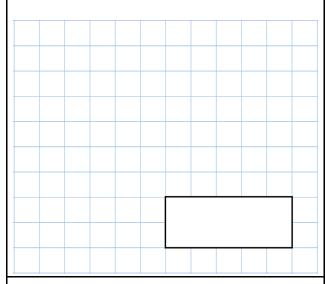
Ellie says that all the factors of 16 are **even**

Why is Ellie wrong?



1st March

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

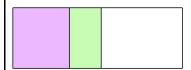


| 4 | _ | 4 | _ | 1 | _ | | | |
|---|---|---|---|---|---|--|--|--|
| 4 | 9 | 1 | 8 | 1 | 3 | | | |
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In this rectangle, $\frac{4}{9}$ is shaded purple 1

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

What fraction of the rectangle is not shaded?

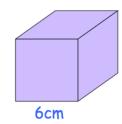


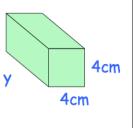
w= 17

Work out 6w + 7

The volume of the cube and the cuboid are equal.

Find the length of the cuboid.

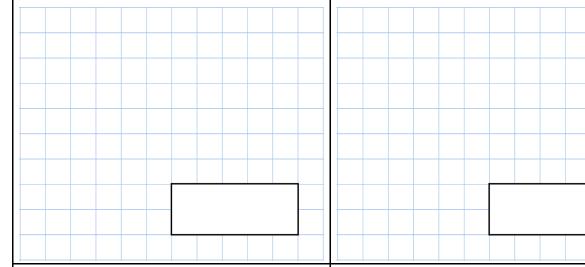




2nd March

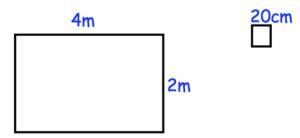
$$15\% \times 2,000$$

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



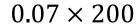
Mr Harris is tiling his bathroom floor. The bathroom floor is a rectangle measuring 4m by 2m. Each time is 20cm by 20cm

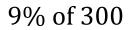
How many times does he need?

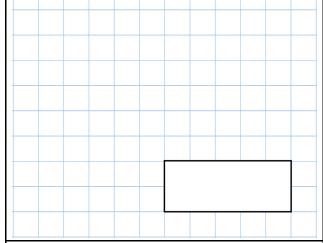


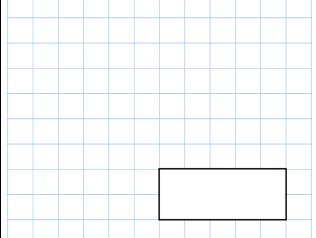
Find the lowest common multiple (LCM) of 5, 6 and 9

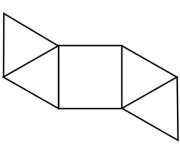
3rd March











This is a net for which 3D shape?

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

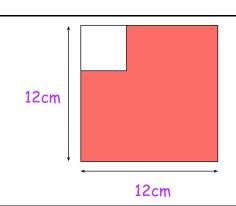
How many kilograms of cement and gravel are needed to mix with 30 kilograms of sand?

_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.

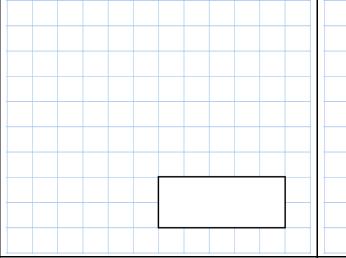
What is the area of the red section?

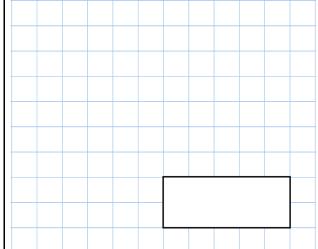




$$2\frac{1}{4} + \frac{7}{8}$$

45% of 720





Circle any fraction that is greater than

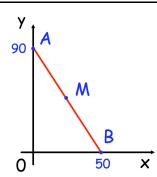
$$\frac{1}{2}$$
 but less than $\frac{1}{3}$

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

$$\frac{1}{2}$$

$$\frac{5}{8}$$

$$\frac{7}{10}$$



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

What are the coordinates of M?

Owen has 3 marbles more than Mia Mia has 6 marbles more than Carl.

Altogether they have 30 marbles.

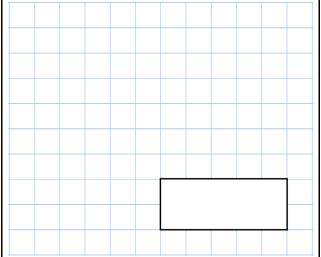
How many marbles does each child have?

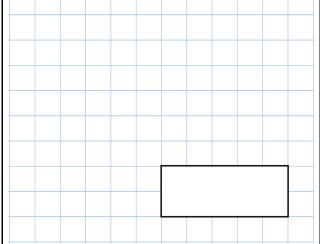
Carl

|--|

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

 $4,871 \times 26$





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

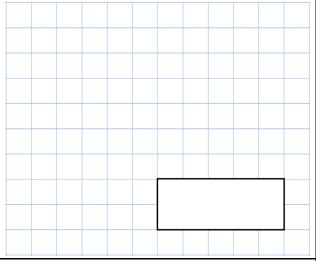
How long is the line? Give your answer in metres.

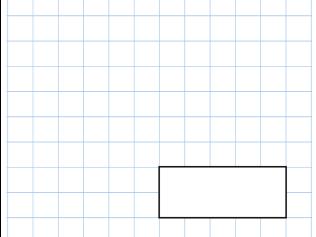




$$80 - 24 \div 8$$

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





Jenny bought a car.

She paid a deposit of £855.

Jenny paid 48 payments of £185.

How much did the car cost Jenny in total?



















What numbers did they each start with?

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 30."

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

Barbara



Denise

| | \neg |
|-----------|--------|
| | |
| \bigcup | _) |



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

| 4 | 2 | 1 | 1 | 3 | 4 | | | |
|---|---|---|---|---|---|--|--|--|
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

Mervyn drives for 13 hours.

His car uses 6.72 litres of diesel an hour.

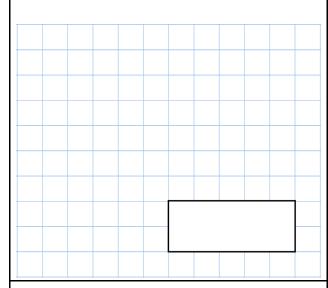
How many litres of diesel does he use?

| Find the shaded area | | 15cm |
|----------------------|------|------|
| | 10cm | 6cm |

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

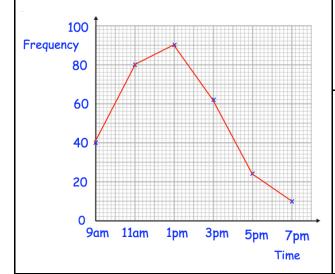


5,030,124 - 3,111,809



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

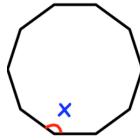
The line graph shows her results



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

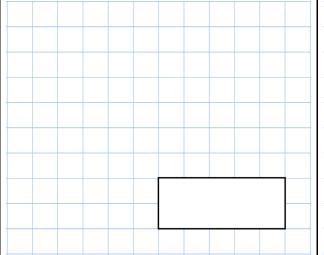


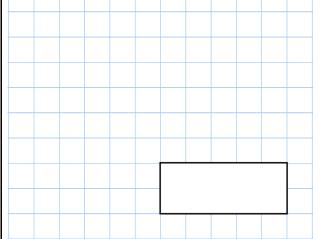
Find the size of angle x



 27×3.1

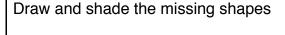
5% of 510

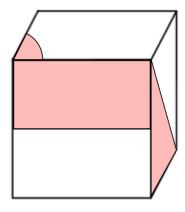


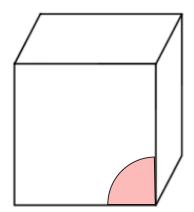


This cube has shapes drawn on three of its faces

The cube is turned to look like this.







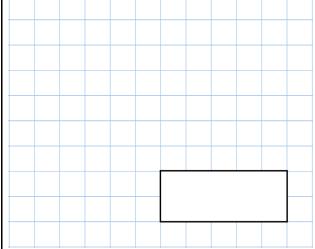
A farmer says he has 2,500 sheep to the nearest 100.

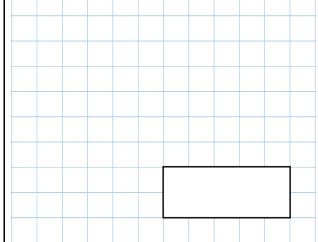
What is the greatest possible number of sheep that he has?



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

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



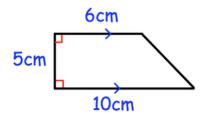


On the grid, draw a triangle with **only one** side of 4cm and a 90° angle

1cm

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

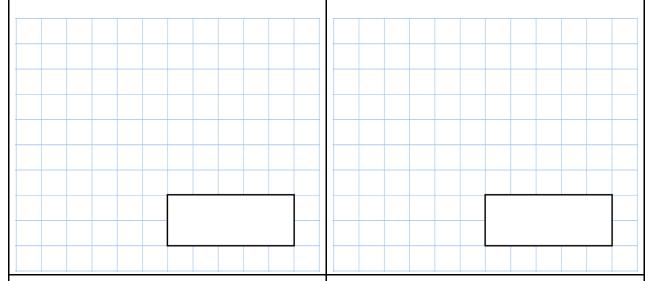
Work out the area of the trapezium





$$83 \div 4$$

11% of 4,000

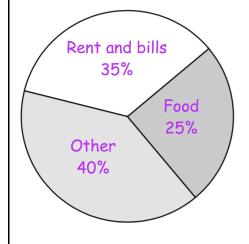


Find the value of \mathbf{x}

$$7x - 6 = 71$$

The pie chart shows how Kate she spends her money each month.

Kate spends £600 on food each month



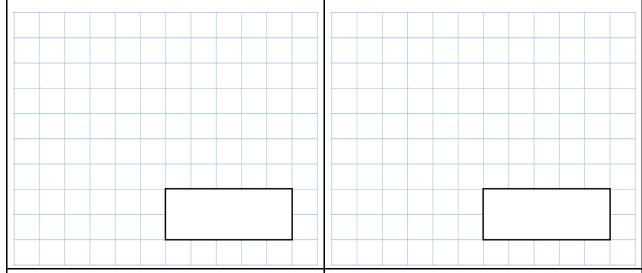
How much money does Kate spend on **other** each month?

How much money does Kate spend on **Rent and bills** each month?



$$0.7 \times 5,000$$

$$1,309 \div 17$$

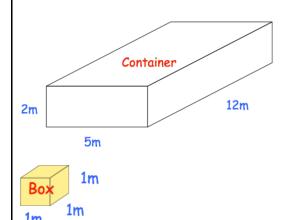


Find the lowest common multiple of 16 and 20.

A cuboid container is keep boxes.

Each box is a cube with side length 1m.

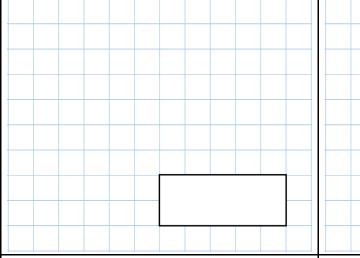
How many boxes can fit into the container?

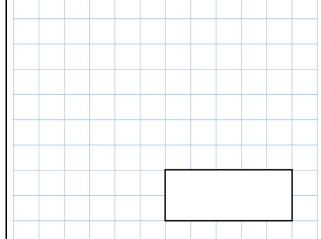




$$90\% \times 900$$

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





Work out the missing number

Using different numbers, fill in the missing numbers below

| The | T1 | ırst |
|-----|----|------|
| | | |

| <u>ر</u> | |
|----------|--|
| 3 | |
| | |

| add | to | 5 |
|-----|----|---|
| | | |

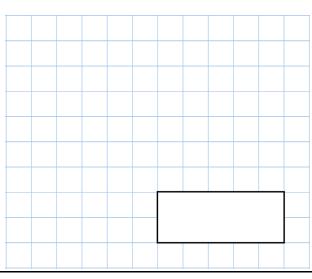
| 3 | multiples of | add to 54 | The first | multiples of | |
|---|--------------|-----------|-------------|--------------|--|
| | | | 1116 111 31 | marriples of | |

add to 54

Draw a 250° angle

Write the number 1960 in Roman numerals

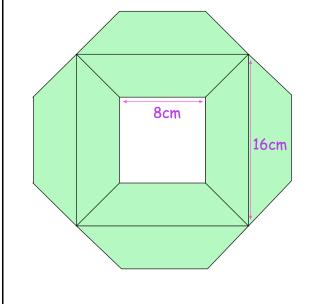
 1.83×9



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

How many sweets does Mark get?

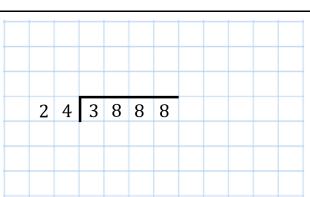
A logo is made from a square and 8 identical trapeziums.



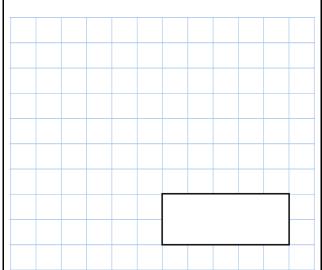
Find the area of one trapezium

Find the total area of the logo.

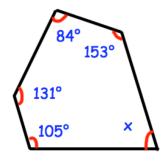




$$\frac{1}{6} \div 3$$



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



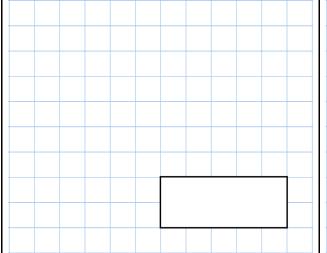
8





$$35\% \times 120$$

$$\frac{1111}{180} = 0.1$$



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Each quadrilateral has a perimeter of 32cm.

Complete the table

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

Find the value of y

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

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

Each lemon tree costs £18 Each plum tree costs £24

Shay buys 19 lemon trees.

How many plum trees can Shay buy?



 $14.688 \div 12$

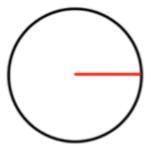
| | 1 | 8 | 7 | 2 | |
|---|---|---|---|---|--|
| X | | | 2 | 5 | |
| | | | | | |

A bus travels 120 miles at a speed of 40 miles per hour.

How long does the journey take?



What part of the circle is shown in red?



Two whole numbers multiply together to give an answer of 600.

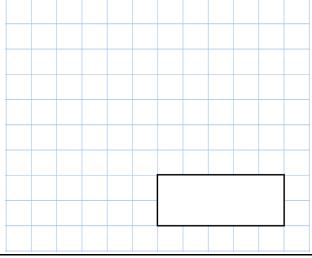
Neither of the numbers contains the digit zero.

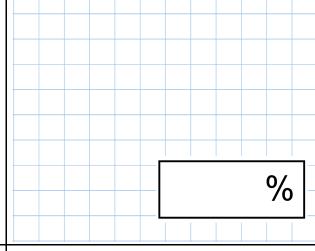
What are the two numbers?



$$945 \div 35$$







I am thinking of a number that is not zero.

I **multiply** my number by -2

Tick the statement that is true.

| _ | i l | | | |
|---|--------|------------|---------|----------|
| | The on | swer mus | st he r | nositive |
| | THE UI | SWEI IIIUS | ו טעונ | ,0311146 |

The answer must be negative

The answer could be positive or negative

Rebecca is $\frac{1}{3}$ of Barry's age.

Barry is $\frac{1}{6}$ of Neville's age.

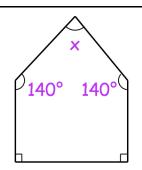
If Rebecca is 4 years old, how old is Neville?



Is the shape a **regular** pentagon?

Yes No

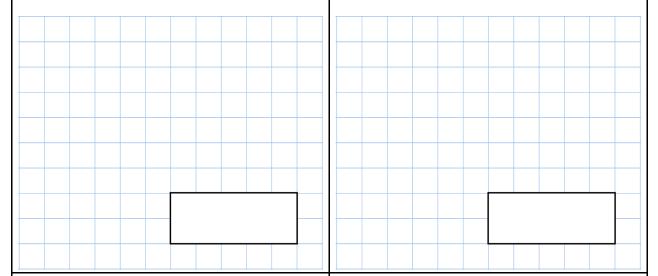
Find the size of angle \boldsymbol{x}





$$\frac{8}{9} \div 4$$

 802×223



Find three different prime numbers that have a product of 165

Joey thinks the answer to $16 + 4 \times 2$ is 40.

Tim thinks the answer to $16 + 4 \times 2$ is 24.

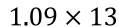
Who is correct? Explain your answer.

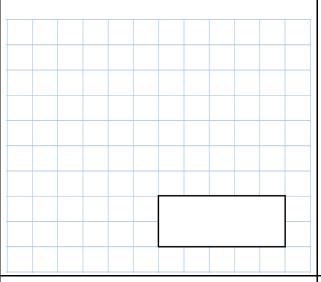
Here are three equations

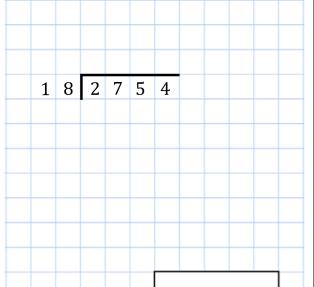
$$x + y + z = 28$$

$$y + z = 13$$

What are the values of x, y and z?





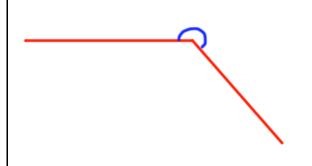


Two glasses contain orange juice.

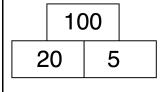
A 400ml glass is 40% full. A 300ml glass is half full.

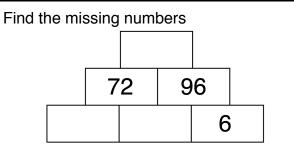
Which glass contains less orange juice?

Measure this reflex angle



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

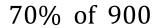


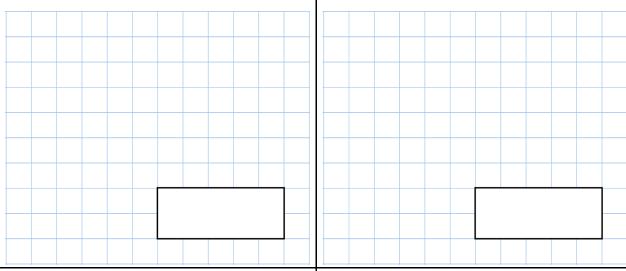




21st March

$$0.875 \div 7$$





Find the lowest common multiple (LCM) of 16 and 20

Sofa World and Sofa Land charge to deliver pizzas.





Describe the delivery cost of Sofa Land.

Sofa World has be done for you.

Sofa World

The greater the delivery distance, the greater the delivery cost.

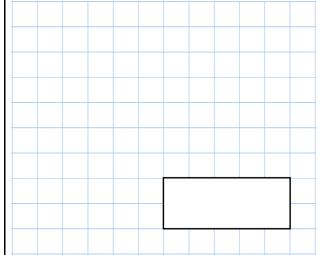
Sofa Land



22nd March

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

-18 - 25



Adam is organising a charity concert at school.

How much money will Adam raise for charity?

The concert is sold out.

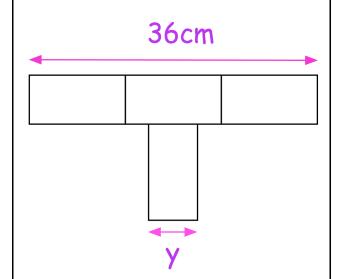
The hall holds 35 rows of 42 seats.

Each person pays £18



Here is a shape made from 4 identical rectangles.

The total area is 336 cm^2



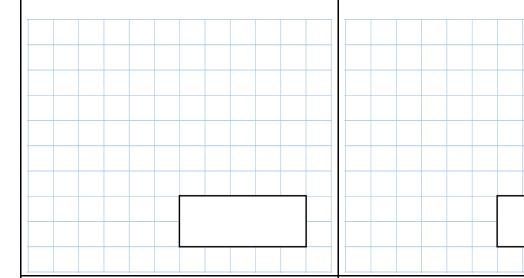
Work out the value of y



23rd March

$$0.95 = \frac{100}{100}$$

 $0.072 \times 100,000$

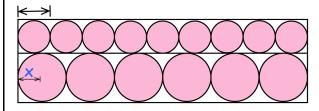


Write the number 2019 in Roman numerals



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

22cm

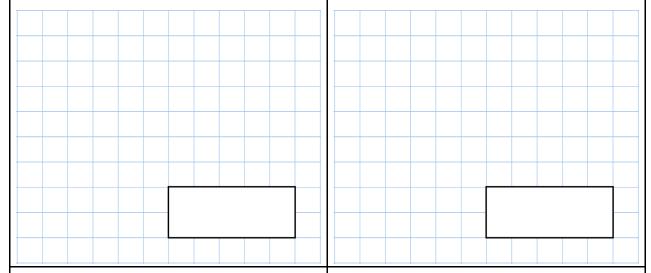


The diameter of a small circle is 22cm.

Work out the radius of a large circle.

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

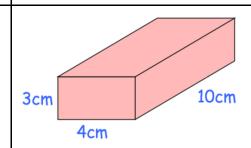
$$450 \times 8 = 25 \times \boxed{}$$



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.

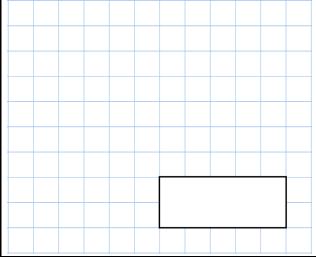
Her answer is 75.

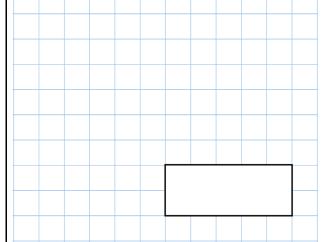
What was the number Molly first thought of?



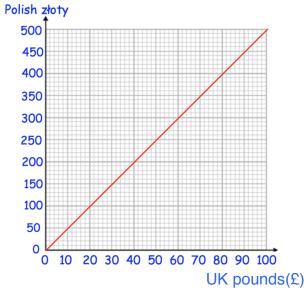


 $\frac{7}{9} \times \frac{2}{3}$





This graph helps change UK pounds into Polish złoty



Change £20 into Polish złoty

Change 450 złoty into UK pounds.

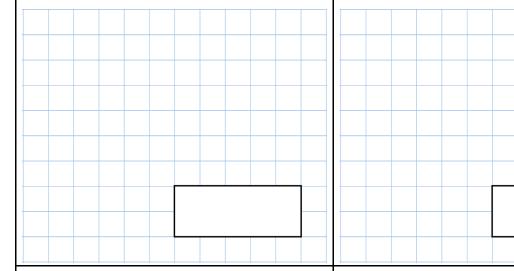
Kelsey says that she has drawn a triangle where "two of the three angles are obtuse."

Explain why Kelsey must be incorrect.



| Cimplify | 1650 |
|----------|------|
| Simplify | 1850 |

$$\frac{9}{10} - \frac{1}{7}$$



Roger organises a trip to a museum.

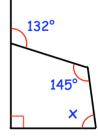
The total price of the tickets is £103.50 The total price for the coach is £64.80.

9 people share the cost equally.

How much does each person pay?

Find the size of angle \boldsymbol{x} .

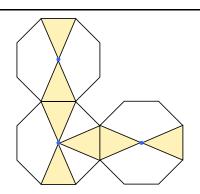




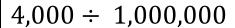
The diagram shows three regular octagons

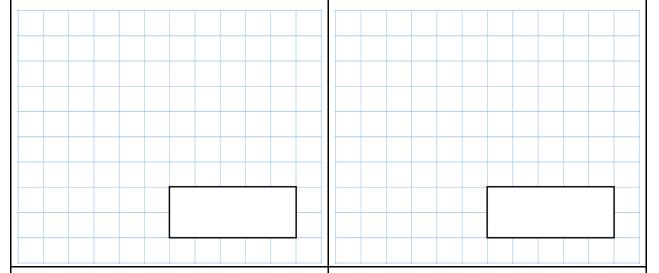
There is a blue dot at the centre of each octagon.

What fraction of the diagram is shaded?





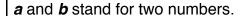




The mean of four numbers is 10.

Three of the numbers are 9, 11 and 7.

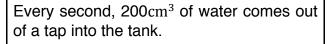
Work out the fourth number.

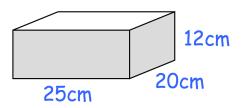


Triple a equals a third of b

Write numbers to complete the sentence

When a is then b is

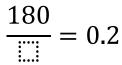


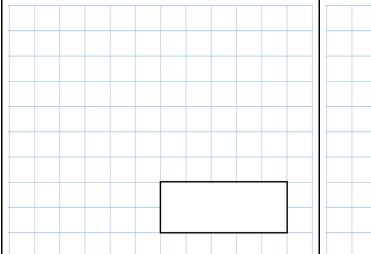


How long does take to fill the tank from empty?



4% of 2,400





Ricky goes on holiday for 4 days.

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

| Monday | Tuesday | Wednesday | |
|---------|---------|-----------|--|
| 9 miles | 5 miles | 11 miles | |

Show Ricky is correct.

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

Thursday is his last day on holiday. Ricky wants to increase his mean to 10 miles.

How far must Ricky walk on Thursday?

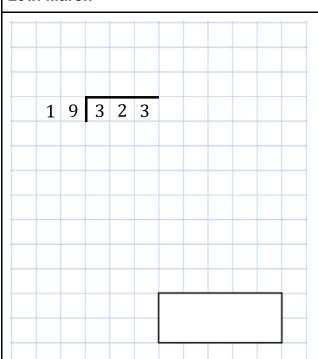
The ratio of adults to children at a cricket match is 7:3.

There are 120 people at the match.

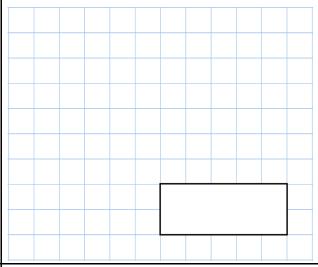
How many children attended the cricket match?





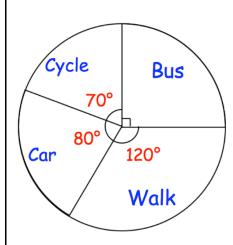


 $2\frac{1}{2} \times 15$



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?

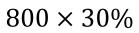
The formula F = 1.8C + 32 can be used to convert between Celsius and Fahrenheit.

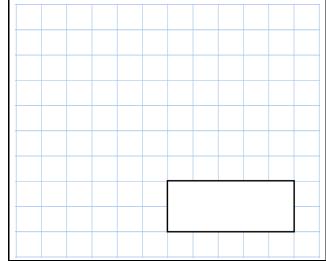
Work out C when F = 14

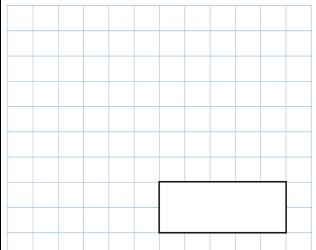


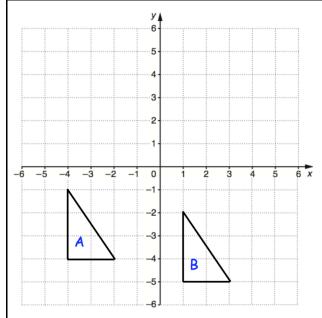


$$\frac{9}{13}$$
 of 741









Describe the translation that takes shape A to shape B.

Reflect triangle B in the x-axis.

Solve the equation

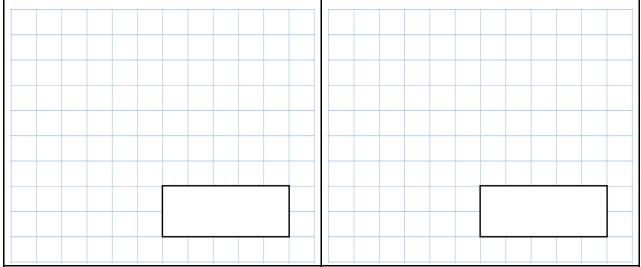
$$3y - 1 = y + 7$$



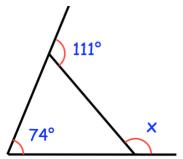
31st March

$$325 \div 13$$

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



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

