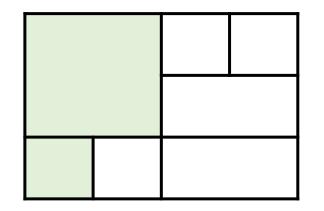
What fraction of each rectangle is shaded?



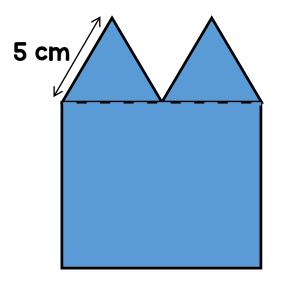
2 Work out the following fraction calculations.

(a)
$$\frac{3}{6} + \frac{1}{2}$$

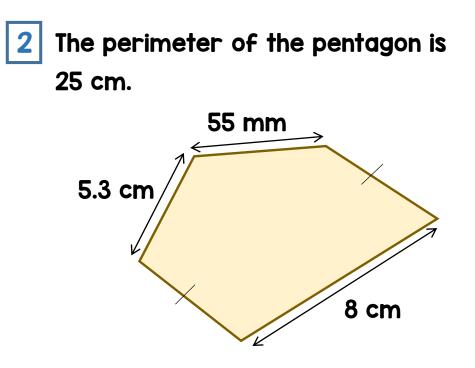
(b) $\frac{2}{5} + \frac{7}{15} + \frac{3}{5} + \frac{8}{15}$
(c) $1 - \frac{1}{5} - \frac{3}{10}$



A shape is made up of two equilateral triangles and a square.



What is the perimeter of the shape?



Find the missing lengths.





Helen has £400

She spends $\frac{1}{10}$ of the money on a new toaster.



She spends $\frac{1}{8}$ of the amount left on a pair of trousers.

Which item costs the most?

 $\frac{3}{8} \text{ of people watching a play are adults.}$

The rest of the people watching are children.

There are 32 more children than adults watching the play.

How many people are watching the play in total?





Usman saves IOp and 50p coins in his money box.



He has saved £12.70

32 of the coins in the money box are 10p coins.

How many 50p coins are in the box?

The table shows the number of loaves of bread sold in a shop each week in February.

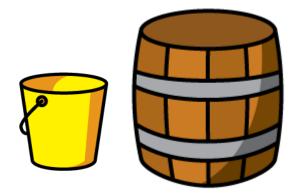
Week	Number of loaves sold	
I st Week	480	
2 nd Week	400	
3 rd Week	70	
4 th Week	250	

Which week did the shop sell $\frac{1}{3}$ of the total number of loaves of bread sold in February?



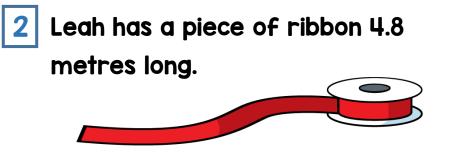


A bucket holds 5 litres of water.



Yasmin uses 7 and a quarter buckets to fill the barrel with water.

How much water does the barrel hold?



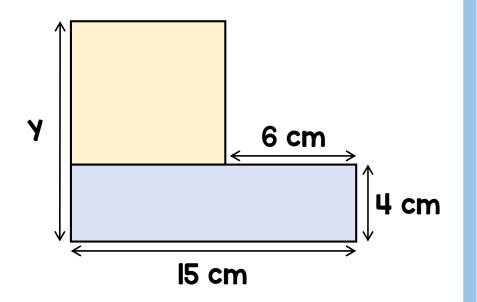
She cuts a l.2 m piece of ribbon off from the end.

She cuts the remaining ribbon into 2 pieces of equal length.

How long are the pieces of ribbon?



The shape is made up of a square and a rectangle.



Find the length of the side y

2 Work out the missing numbers.

(a)
$$5 \times \frac{2}{3} = \square \times \frac{1}{3}$$

(b)
$$IO \times \frac{3}{8} = \square \times \frac{5}{8}$$

(c)
$$5 \times \frac{1}{4} = \square \times \frac{1}{8}$$





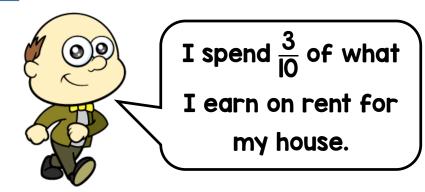
A school makes 50 sandwiches each day.

The table shows the number of

sandwiches sold each day last week.

Day	Number of sandwiches sold	
Monday	20	
Tuesday	32	
Wednesday	47	
Thursday	18	
Friday	39	

How many sandwiches in total were not sold last week? 2 Tony earns £600 a week.



He spends 20% of the amount remaining on a new coat.

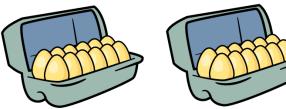
How much money does the coat cost?





Maisie buys 5 boxes of eggs.





Each box contains 12 eggs.

She uses 18 of the eggs.

What fraction of the eggs does she have left?

2 Max has some bags of apples and some bags of oranges.

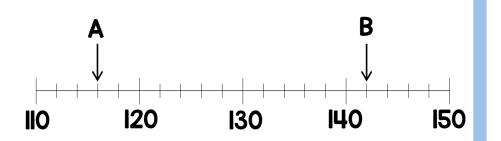
- There are twice as many oranges as apples in a bag.
- Max has 4 bags of apples and 3 bags of oranges.
- Max has 70 apples and oranges in total

How many oranges are in one bag?





A number line has 2 numbers marked.



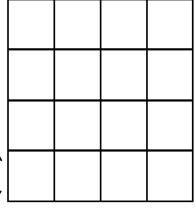
True or False

Explain your answer.

2 Dana has a square grid.

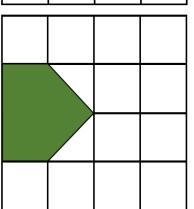
The length of each square is 6 cm.

6 cm



Dana shades in part of the grid.

What is area of the shaded part of the grid?







Which of the fractions add up to I?

Which two of the fractions below have the greatest difference?

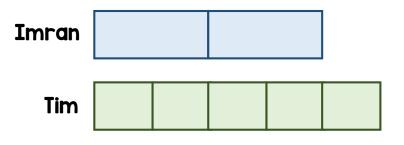
$$\frac{4}{9} \quad \frac{1}{3} \quad \frac{1}{6} \quad \frac{7}{18}$$

2 Imran and Tim each think of a number.

 $\frac{1}{2}$ of Imran's number is equal to $\frac{2}{5}$ of Tim's number.

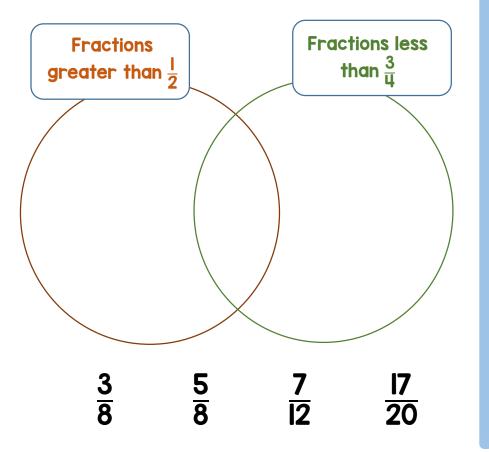
The total of their numbers is 144

What number is Imran thinking of?





Put the fractions into their correct position in the diagram.



2 Amy makes a repeating pattern.



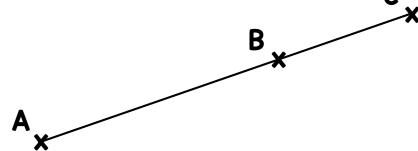
What shape will be in the 50th position?

Explain how you know.





Three points are marked on the line below.



The distance from A to B is twice the distance from B to C.

The distance from A to B is 15 cm.

What is the distance from A to C?

What is the area of the shaded triangle?
5 cm
17 cm





- A single card costs 50p
- A pack of 5 cards costs £2
- A pack of 10 cards costs £3.50

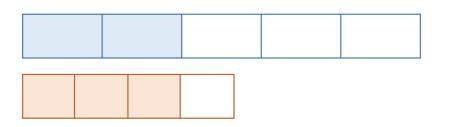
Max has £10 to spend.

What is the maximum number of trading cards he can buy?

 $\frac{2}{5}$ of a number is equal to $\frac{3}{4}$ of a different number.

The smaller of the two numbers is 80

What is the value of the largest number?









Complete the missing numbers.

 $128 \times 12 = 128 \times 10 + 128 \times 10$

128 x 12 = 127 x 12 +

128 x 12 = 128 x 6 x

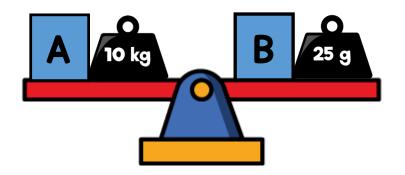
Mark has £150 and Jan has £120 Mark gives Jan some money. Jan now has twice as much as Mark.

How much money did Mark give Jan?





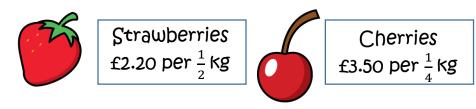
Here are some scales.



Which is the heavier box, A or B?

Explain your answer.

2 A shop sells these fruits.



Megan buys

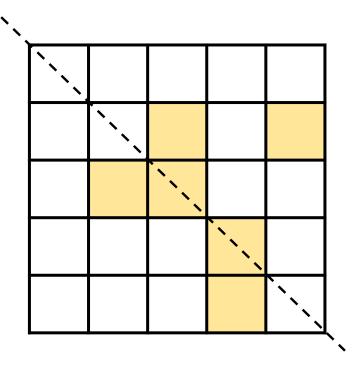
- 2 kg of strawberries and
- 750 grams of cherries

How much does she spend in total?

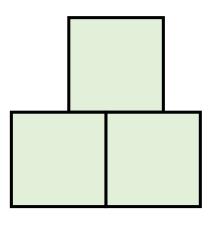




Shade in 2 more squares so that the dotted line is a line symmetry.



2 A shape is made of 3 identical squares.



The area of the shape is 75 cm².

What is the perimeter of the shape?





A bag contains $2\frac{1}{2}$ kg of flour.



Another bag contains $I\frac{I}{4}$ kg more flour than the first bag.

How much flour is there in the two bags in total?

2 A rectangle has a perimeter of 84 cm.

It is divided into 4 identical rectangles.

What is the length of one of the

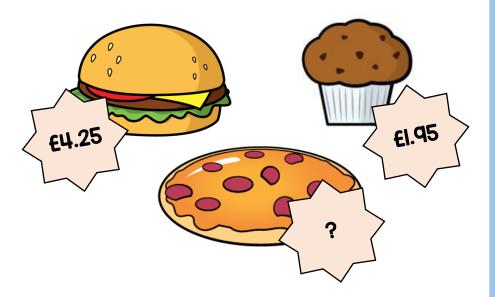
smaller rectangles?





Leo has £25

He buys the following items.



He has £12.50 left.

How much does the pizza cost?

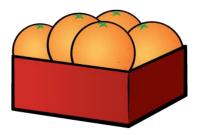
2 Alysha and Beth go on a bike ride.

- In the morning Alysha cycles 3 times as many km as Beth.
- In the afternoon Alysha
 cycles I4 km and Beth cycles
 48 km.
- They have now cycled the same distance.

How many km did Alysha cycle in the morning?



A box of 5 oranges cost £1.80



How much do 80 oranges cost? Show your method. 2 Jane reads a book.

- On Monday she reads 26 pages.
- On Tuesday she reads $\frac{2}{5}$ of the remaining pages.
- On Wednesday she reads the final 36 pages.

How many pages are in the book?





Tanya bakes some cookies to sell.

- By Ipm she has sold 29 cookies.
- By 3pm she has sold 50% of all the cookies.
- At 3pm she has 72 cookies left.

How many cookies does she sell between Ipm and 3pm? 2 David has 3 number cards.

- The sum of A and B is I20
- The sum of B and C is I50
- If you subtract B from C you get 12

What is the value of A?

