

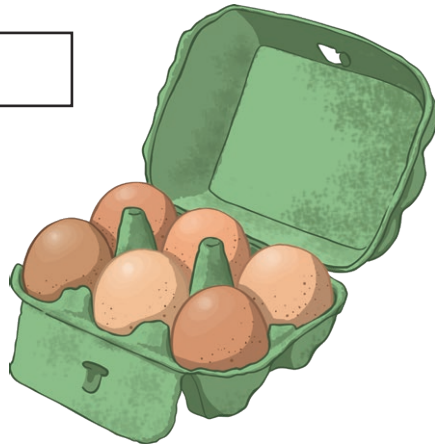
a
Put the following numbers in order from smallest to largest:

-7, 18, 0, -20, 5

$\frac{7}{8}$, $\frac{3}{8}$, $\frac{5}{8}$, $\frac{1}{8}$

b
It takes 6 eggs to make enough cake for 14 people.

How many eggs will be needed to make enough cake for 7 people?



c
Write as a decimal:

80%

$\frac{7}{10}$

d
I think of a number, multiply it by 2 then subtract 4. The result is 8.

What number did I first think of?

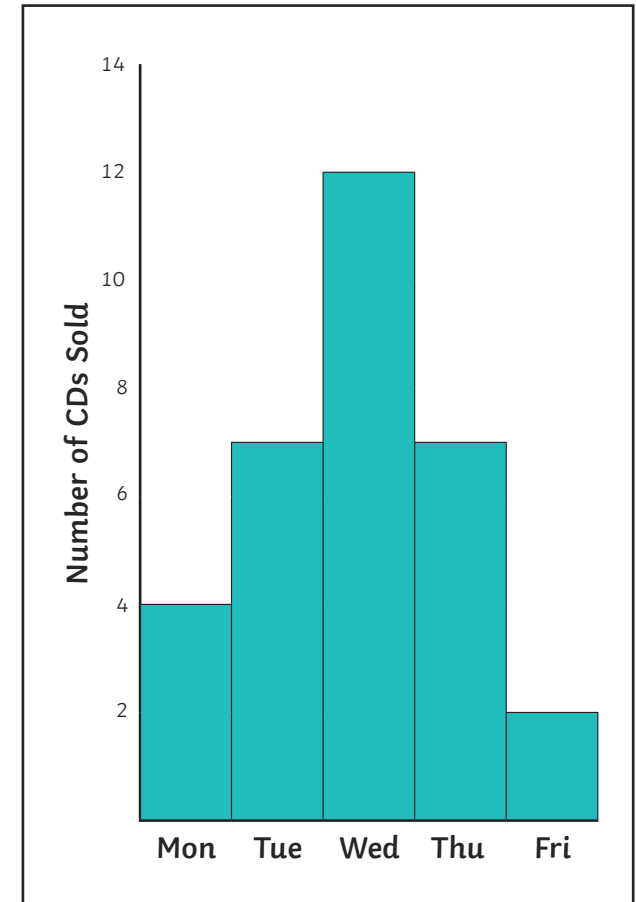
e
Evaluate:

$3 + 3 \times 7 =$

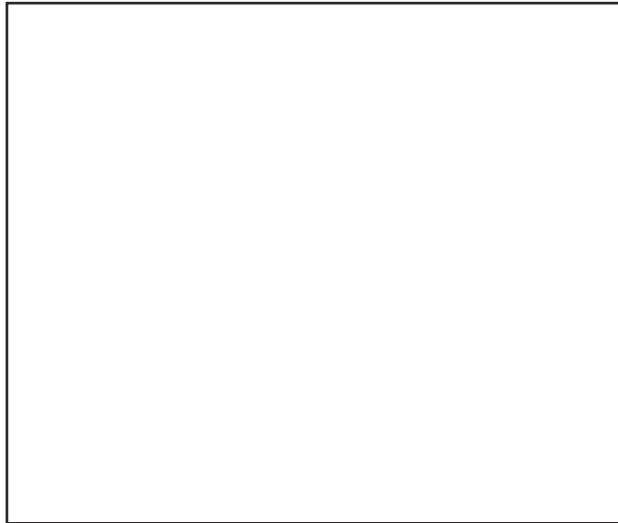
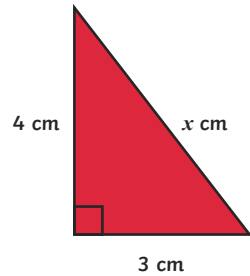
$8 \times (2 + 3) =$

f
The bar chart shows the number of CDs sold at Gail's Gift Gallery from Monday to Friday one week.

How many CDs were sold on Tuesday and Wednesday?



Draw this triangle out accurately and measure to find the value of x .



a

Give your answers as fully simplified fractions:

$$\frac{2}{5} + \frac{1}{5} = \square$$

$$\frac{2}{3} - \frac{1}{6} = \square$$

c

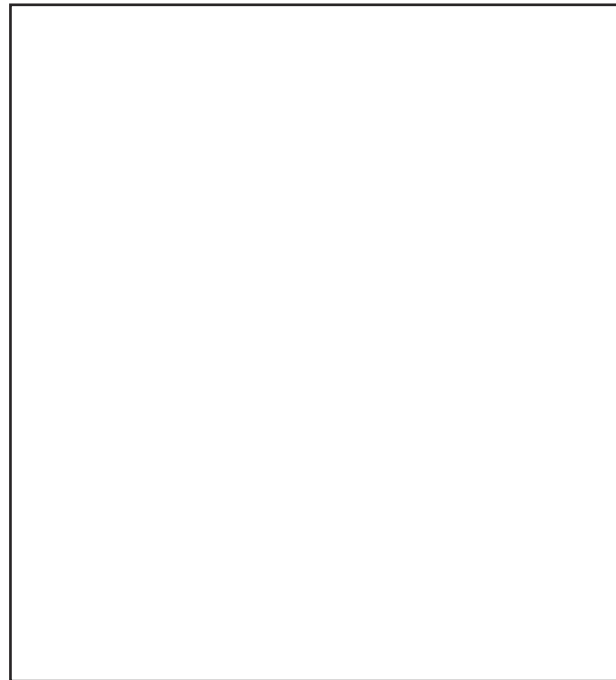
$$-3 - 8 = \square$$

$$-10 - 3 = \square$$

$$3 \times -2 = \square$$

e

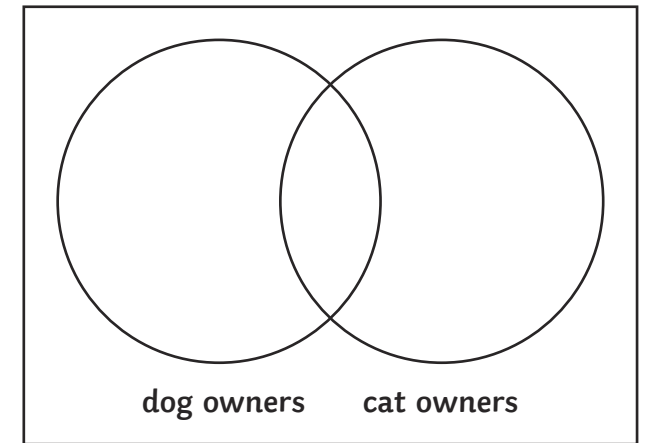
Use a ruler and protractor to draw accurately an equilateral triangle with sides of 4cm.



d

There are 30 children in 9C at Yulurn Hir School. 4 of them have both a dog and a cat. 11 of them have no cat or dog. 8 of them have cats.

Show this information on the Venn Diagram.



f

$$0.32 + 0.17 = \square$$

$$0.48 - 0.12 = \square$$

b

a

Place the correct sign, > or < between each pair of numbers

0.6 0.8

0.2 0.8

c

Write as a fully simplified fraction:

50%

0.7

e

Find the mean, mode, median and range of the following numbers:

3, 4, 9, 2, 1, 1, 8

mean

mode

median

range

b

From this list of numbers:

8, 9, 10, 11, 12, 13, 14, 15, 16

Give:

a square number

a multiple of 6

a factor of 16

a prime number

d

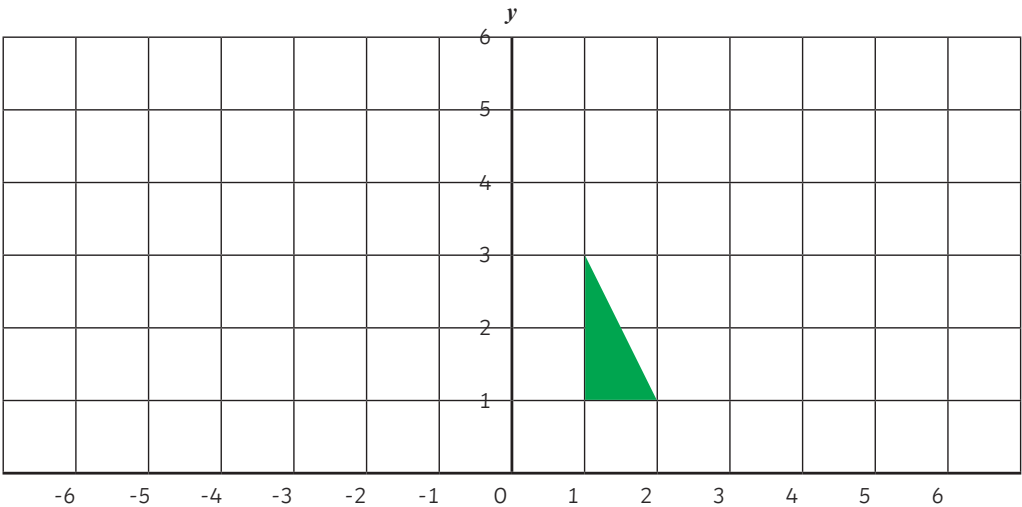
$3^2 =$

$2^3 =$

f

Translate the shaded triangle 6 places left and 2 up.

Reflect the shaded triangle in the y axis.



Round 34349 to the nearest hundred.

Round 3.4654 correct to 1 decimal place.

a

Fully simplify:

$$4a + 2b + 3a + b =$$

c

When $x=5$ and $y=3$, evaluate:

$x + y$

$x - y$

e

$4\text{kg} =$

 g

$5\text{mm} =$

 cm

b

A letter is picked at random from the word PROBABILITY. What is the probability that the letter chosen is:

a) a B?

b) a vowel?

d

Evaluate, giving your answers as fully simplified fractions or mixed numbers:

$$\frac{3}{5} \times \frac{1}{2} =$$

$$\frac{3}{4} \div \frac{1}{4} =$$

f

a

Simplify the ratio 6:10.

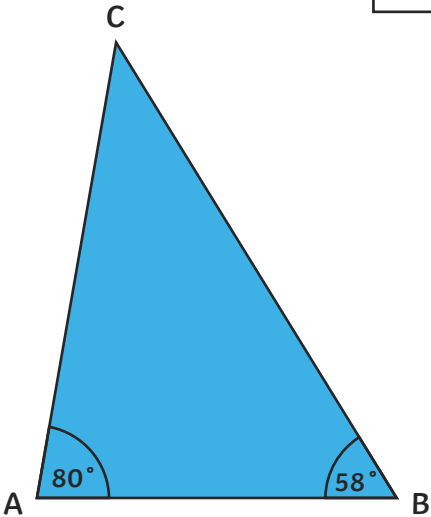
Annie and Billy share £10 in the ratio 2:3.
How much money does each get?

Annie: Billy:

b

ABC is a triangle.
angle A = 80°
angle B = 58°
Find angle C.

Angle C =




c

Find 20% of £40.

d

You can buy 15 mini gingerbread men for 90p at Pixie's Bakery. At Elvis's Bakery, you can buy 5 for 28p.

Which bakery offers better value for money?
Show all of your working.



e

A cuboid has length 4cm, width 3cm and height 10cm. What is its volume?

f

When a coin is tossed, it can land on a head or a tail. Write down all 8 possible outcomes when 3 coins are tossed, e.g.

Head Head Head

Head Head Tail

a

Simplify:

$y \times y \times y$

$3 \times a \times b$

d

Find the highest common factor of 6 and 18.

e

2, 4, 8, 16, ...

What are the next 2 terms in this sequence?

b

Find the area and the perimeter of a rectangle of length 5cm and width 3cm.

Area:

Perimeter:

c

Find the term to term rule in this sequence.

5, 9, 13, 17, ...

What is the next term in the sequence?

f

On the axes below, plot the following points: (0,4), (-3,4), (2,-1)

a

Put the following numbers in order from smallest to largest:

-7, 18, 0, -20, 5

-20, -7, 0, 5, 18

$\frac{7}{8}$, $\frac{3}{8}$, $\frac{5}{8}$, $\frac{1}{8}$

$\frac{1}{8}$, $\frac{3}{8}$, $\frac{5}{8}$, $\frac{7}{8}$

c

Write as a decimal:

80% **0.8**

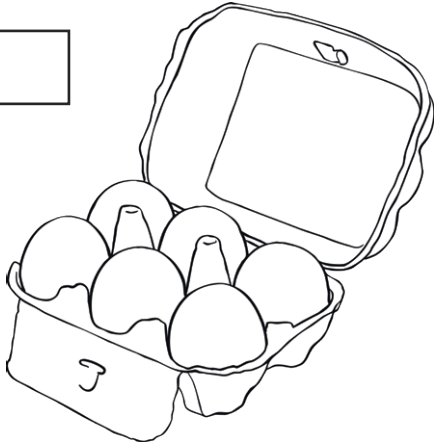
$\frac{7}{10}$ **0.7**

b

It takes 6 eggs to make enough cake for 14 people.

How many eggs will be needed to make enough cake for 7 people?

3 eggs



d

I think of a number, multiply it by 2 then subtract 4. The result is 8.

What number did I first think of?

6

e

Evaluate:

$3 + 3 \times 7 =$ **24**

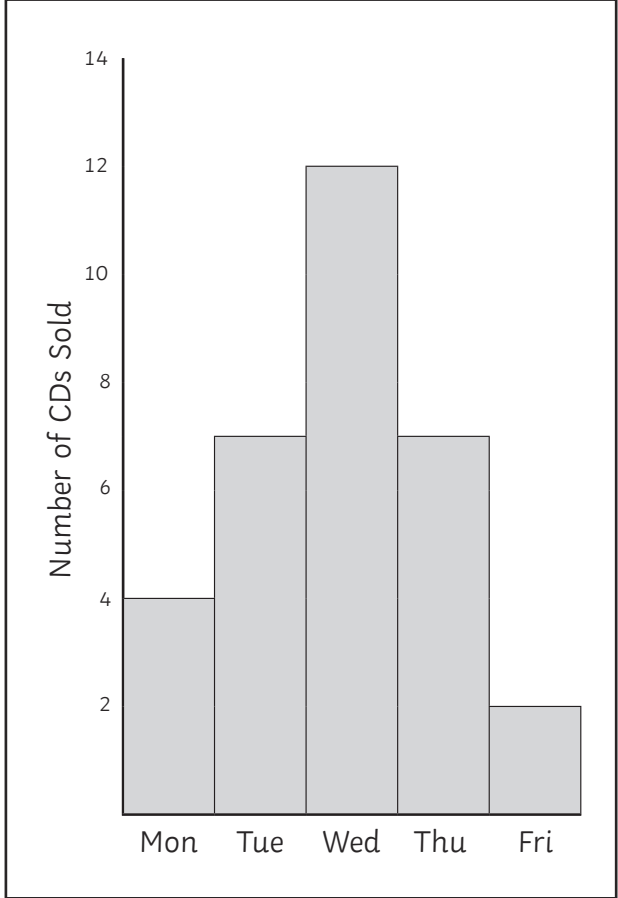
$8 \times (2 + 3) =$ **40**

f

The bar chart shows the number of CDs sold at Gail's Gift Gallery from Monday to Friday one week.

How many CDs were sold on Tuesday and Wednesday?

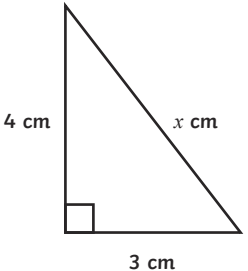
19 CDs



Day	Number of CDs Sold
Mon	4
Tue	7
Wed	12
Thu	7
Fri	2

a

Draw this triangle out accurately and measure to find the value of x .



4 cm

3 cm

x cm

Approx 5cm

c

Give your answers as fully simplified fractions:

$$\frac{2}{5} + \frac{1}{5} = \boxed{\frac{3}{5}}$$

$$\frac{2}{3} - \frac{1}{6} = \boxed{\frac{1}{2}}$$

e

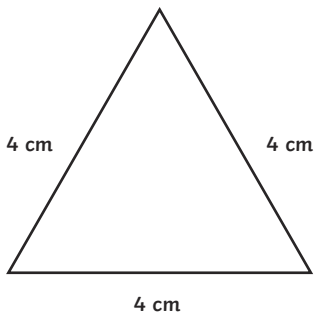
$$-3 - 8 = \boxed{-11}$$

$$-10 - 3 = \boxed{-13}$$

$$3 \times -2 = \boxed{-6}$$

d

Use a ruler and protractor to draw accurately an equilateral triangle with sides of 4cm.



4 cm

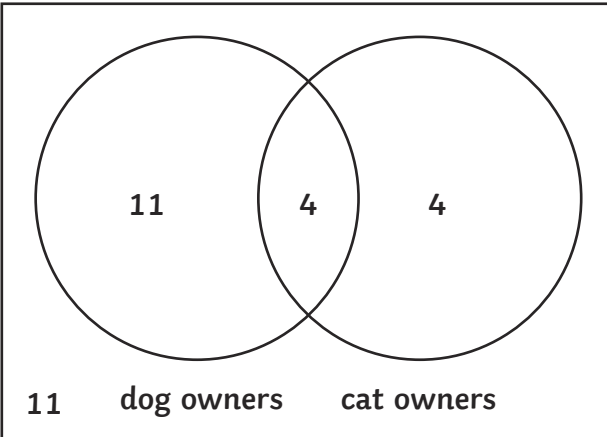
4 cm

4 cm

f

There are 30 children in 9C at Yulurn Hir School. 4 of them have both a dog and a cat. 11 of them have no cat or dog. 8 of them have cats.

Show this information on the Venn Diagram.



11

4

4

11 dog owners cat owners

b

$$0.32 + 0.17 = \boxed{0.49}$$

$$0.48 - 0.12 = \boxed{0.36}$$

a

Place the correct sign, > or < between each pair of numbers:

$$0.6 \quad < \quad 0.8$$

$$0.2 \quad < \quad 0.8$$

b

From this list of numbers:

8, 9, 10, 11, 12, 13, 14, 15, 16

Give:

a square number

9 or 16

a multiple of 6

12

A factor of 16

8 or 16

a prime number

11 or 13

c

Write as a fully simplified fraction:

$$50\% \quad \frac{1}{2}$$

$$0.7 \quad \frac{7}{10}$$

d

$$3^2 = 9$$

$$2^3 = 8$$

e

Find the mean, mode, median and range of the following numbers:

3, 4, 9, 2, 1, 1, 8

mean 4

mode 1

median 3

range 8

f

Translate the shaded triangle 6 places left and 2 up.

Triangle with vertices at (-5,5) (-5,3) (-4,3)

Reflect the shaded triangle in the y axis.

Triangle with vertices at (-1,3) (-2,1) (-1,1)

Round 34349 to the nearest hundred.

34 300

Round 3.4654 correct to 1 decimal place.

3.5

Fully simplify:

$$4a + 2b + 3a + b = 7a + 3b$$

When $x = 5$ and $y = 3$, evaluate:

$$x + y = 8$$

$$x - y = 2$$

$$4\text{kg} = 4000\text{g}$$

$$5\text{mm} = 0.5\text{cm}$$

A letter is picked at random from the word PROBABILITY. What is the probability that the letter chosen is:

a) a B? $\frac{2}{11}$

b) a vowel? $\frac{4}{11}$

Evaluate, giving your answers as fully simplified fractions or mixed numbers:

$$\frac{3}{5} \times \frac{1}{2} = \frac{3}{10}$$

$$\frac{3}{4} \div \frac{1}{4} = 3$$

a

Simplify the ratio 6:10.

3:5

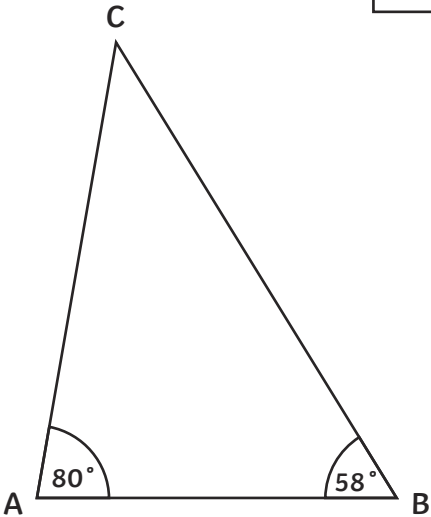
Annie and Billy share £10 in the ratio 2:3.
How much money does each get?

Annie: **£4** Billy: **£6**

b

ABC is a triangle.
angle A = 80°
angle B = 58°
Find angle C.

Angle C = **42°**



c

Find 20% of £40.

£8


d

You can buy 15 mini gingerbread men for 90p at Pixie's Bakery. At Elvis's Bakery, you can buy 5 for 28p.

Which bakery offers better value for money?
Show all of your working.

Elvis's

6p per gingerbread man at Pixie's.
So 5 gingerbread men would cost 30p at Pixie's.



e

A cuboid has length 4cm, width 3cm and height 10cm. What is its volume?

120cm^3

f

When a coin is tossed, it can land on a head or a tail. Write down all 8 possible outcomes when 3 coins are tossed, e.g.

Head Head Head
Head Head Tail

Head Tail Head

Head Tail Tail

Tail Tail Tail

Tail Tail Head

Tail Head Tail

Tail Head Head

a

Simplify:

$y \times y \times y$

$3 \times a \times b$

d

Find the highest common factor of 6 and 18.

e

2, 4, 8, 16, ...

What are the next 2 terms in this sequence?

b

Find the area and the perimeter of a rectangle of length 5cm and width 3cm.

Area:

Perimeter:

c

Find the term to term rule in this sequence.

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f

On the axes below, plot the following points: (0,4), (-3,4), (2,-1)