Term	/,	М	atk	16 A	cti	viti	20
Term	4	I۷I	atr	เร <i>ค</i>	CLL	VLLL	28

Write 54 as a product of its prime factors.

Calculate 7% of 320.

		- 1	
		- 1	
		- 1	

Simplify $a^4 \times a^7$

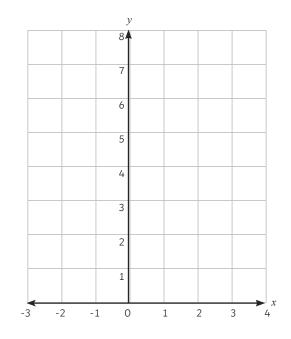


i) Complete the table of values for x + y = 5

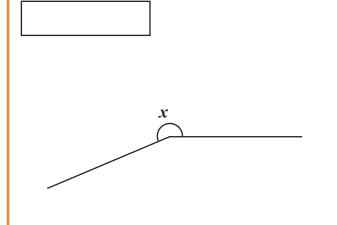
x	-2	-1	0	1	2	3
y		6			3	

d

ii) Hence draw the graph of x + y = 5 for the values $-2 \le x \le 3$.



Measure the size of the angle marked x:



The list shows the ages of 8 children. Find the median age.

9, 7, 11, 13, 10, 15, 13, 17

Term	/,	Mat	he A	ctiv	,itias
rerm	4	Mat	ns A	CLL	/ittes

Vork out 4 × 10 ² .		

Look at the function machine below.

Work out the input if the output is 21:

$$? \rightarrow \boxed{\times 7} \rightarrow 21$$

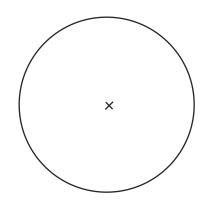
a

		\neg

Draw a chord on the circle.

С

d



Write $\frac{7}{10}$ as:





ii) a percentage.

			_

The first four terms of a sequence are:

3, 7, 11, 15...

Simran says the number 302 is in the sequence. Explain why she is wrong.

The following cards are placed in a box.

1, 2, 3, 4, 5, 6, 7, 8

A card is selected at random. Find the probability that the number on the card is a prime number.

		_

Term 4 Maths Activities

Write the following numbers in order of size, starting with the smallest.

a	

Solve the simultaneous equations:

$$2x + y = 7$$

$$x + y = 4$$



d

The frequency table shows the favourite colour of 15 children. Write down the modal colour.

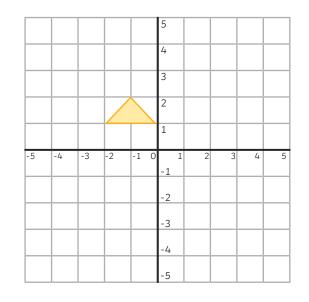
Colour	Frequency
Red	3
Blue	4
Green	7
Yellow	1

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l		
l		
l		

Calculate the value of the letter a in the equation

$$3a - 5 = 7$$

Reflect the shape in the line y = 2.



The table shows the probabilities of picking a chocolate at random from a bag.

Fairy Milk	Sneakers	Snars Bar	Kit Kit
0.1	0.35		0.4

Calculate the probability of picking a Snars bar.

Term 4 Maths Activities

Work out, without using a calculator:

i) -3×4

ii) 10 + -7



iii) -20 ÷ -5

A bag contains strawberry and mint flavoured sweets. There are 4 strawberry and 6 mint sweets.

- i. A sweet is chosen at random and replaced. Mark, on the scale, the probability of choosing a strawberry sweet.
- ii. A sweet is chosen at random. Mark, on the scale, the probability of choosing a lime sweet.

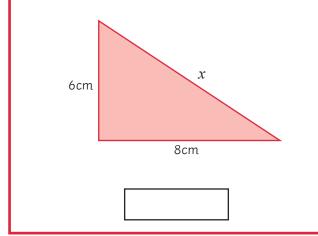
A car takes 3 hours to travel 60 miles. Work out its average speed for the journey.

Eleanor thinks of a mystery number and subtracts 7. Her answer is 11.

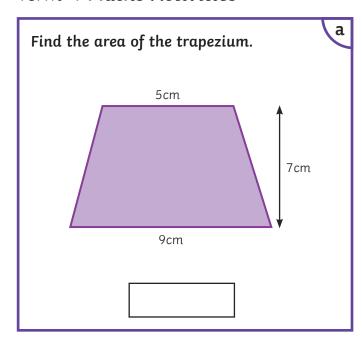
What was her mystery number?



Below is a right-angled triangle. Find the value of the missing length.



Factorise 10x + 8



Simplify $4x + 3x^2 + 5x - x^2$

Find 15% of £25.

Is the answer to √60 between:

a) 6 and 7 or,

b) 7 and 8?

Find the next two terms of the sequence:

1, 1, 2, 3, 5...

b

Round 735 to 1 significant figure.

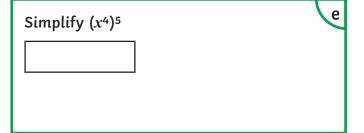
Term 4 Maths Activities

Solve the simultaneous equations:

$$2x + y = 5$$
$$x + y = 2$$

Factorise $x^2 + 7x + 10$

a





The table shows the favourite foods of 15 children. Draw a pie chart to represent the data.

Favourite Food	Frequency
Pizza	6
Curry	5
Chinese	4

b Find the perimeter of the shape. 6cm 7cm 10cm 9cm

d There are 10 dogs and 12 cats in a pet shop. Write the ratio of dogs to cats, leaving your answer in its simplest form.



Term	4	Maths	Activities	Answers
161111	\neg	rialits	ACLIVILLES	MILOVEIS

Write 54 as a product of its prime factors.

 2×3^{3}

Calculate 7% of 320.

22.4

Simplify $a^4 \times a^7$

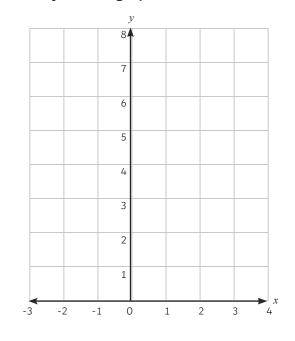
 a^{11}

i) Complete the table of values for x + y = 5

x	-2	-1	0	1	2	3
y	7	6	5	4	3	2

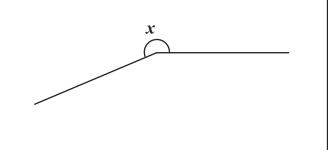
ii) Hence draw the graph of x + y = 5 for the values $-2 \le x \le 3$.

Correctly drawn graph



Measure the size of the angle marked x:

203° +/- 2 degrees



The list shows the ages of 8 children. Find the median age.

9, 7, 11, 13, 10, 15, 13, 17

12

Work out 4×10^2 .

400

Look at the function machine below.

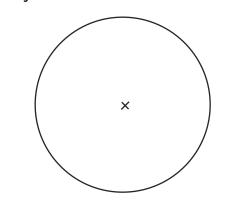
Work out the input if the output is 21:

$$? \rightarrow \boxed{\times 7} \rightarrow 21$$

3

Draw a chord on the circle.

Correctly drawn chord.



Write $\frac{7}{10}$ as:

i) a decimal;

0.7

ii) a percentage.

70%

The first four terms of a sequence are:

3, 7, 11, 15...

Simran says the number 302 is in the sequence. Explain why she is wrong.

The nth term is 4n - 1. If we write 4n - 1= 302 and solve we get n = $\frac{303}{4}$ which is not an integer.

Or, all of the numbers in the sequence are odd.

The following cards are placed in a box.

1, 2, 3, 4, 5, 6, 7, 8

d

A card is selected at random. Find the probability that the number on the card is a prime number.

Term 4 Maths Activities Answers

Write the following numbers in order of size, starting with the smallest.

Calculate the value of the letter a in the

Solve the simultaneous equations:

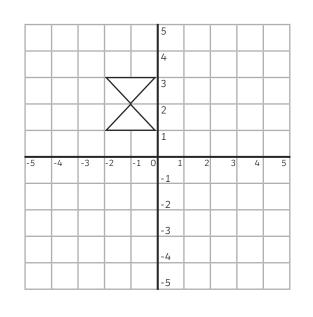
$$2x + y = 7$$

$$x + y = 4$$

$$x = 3, y = 1$$

Reflect the shape in the line y = 2.

d



The frequency table shows the favourite colour of 15 children. Write down the modal colour.

Colour	Frequency
Red	3
Blue	4
Green	7
Yellow	1

Green

The table shows the probabilities of picking a chocolate at random from a bag.

Fairy Milk	Sneakers	Snars Bar	Kit Kit
0.1	0.35	0.15	0.4

Calculate the probability of picking a Snars bar.

equation

3a - 5 = 7

a = 4

Term 4 Maths Activities Answers

Work out, without using a calculator:

i) -3×4

-12

ii) 10 + -7

3

iii) -20 ÷ -5

4

A bag contains strawberry and mint flavoured sweets. There are 4 strawberry and 6 mint sweets.

- A sweet is chosen at random and replaced.
 Mark, on the scale, the probability of choosing a strawberry sweet.
- ii. A sweet is chosen at random. Mark, on the scale, the probability of choosing a lime sweet.

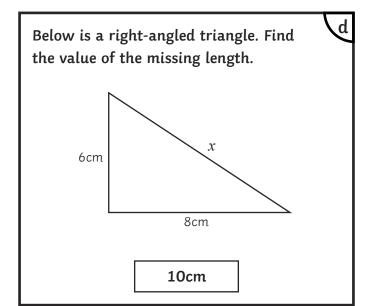
A car takes 3 hours to travel 60 miles. Work out its average speed for the journey.

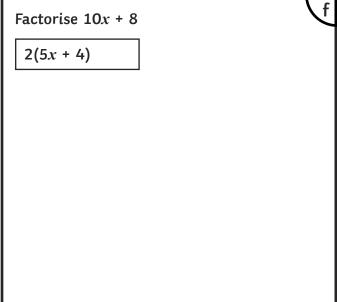
20 miles per hour

Eleanor thinks of a mystery number and subtracts 7. Her answer is 11.

What was her mystery number?

18





Find the area of the trapezium. 5cm 7cm 9cm 49cm²

Simplify $4x + 3x^2 + 5x - x^2$

 $9x + 2x^2$

Find 15% of £25. £3.75

Is the answer to √60 between:

a) 6 and 7

or,

b) 7 and 8?

b) 7 and 8 since 72 is 49 and 82 is 64.

Find the next two terms of the sequence:

1, 1, 2, 3, 5...

8, 13

Round 735 to 1 significant figure.

700

Term 4 Maths Activities Answers



Solve the simultaneous equations:

$$2x + y = 5$$
$$x + y = 2$$

$$x = 3$$
 $y = -1$

Factorise $x^2 + 7x + 10$

$$(x + 2)(x + 5)$$

a

Find the perimeter of the shape.

6cm
7cm

9cm

38cm

There are 10 dogs and 12 cats in a pet shop. Write the ratio of dogs to cats, leaving your answer in its simplest form.

d



The table shows the favourite foods of 15 children. Draw a pie chart to represent the data.

Pie chart with following angles:

Favourite Food	Angle
Pizza	144
Curry	120
Chinese	96

