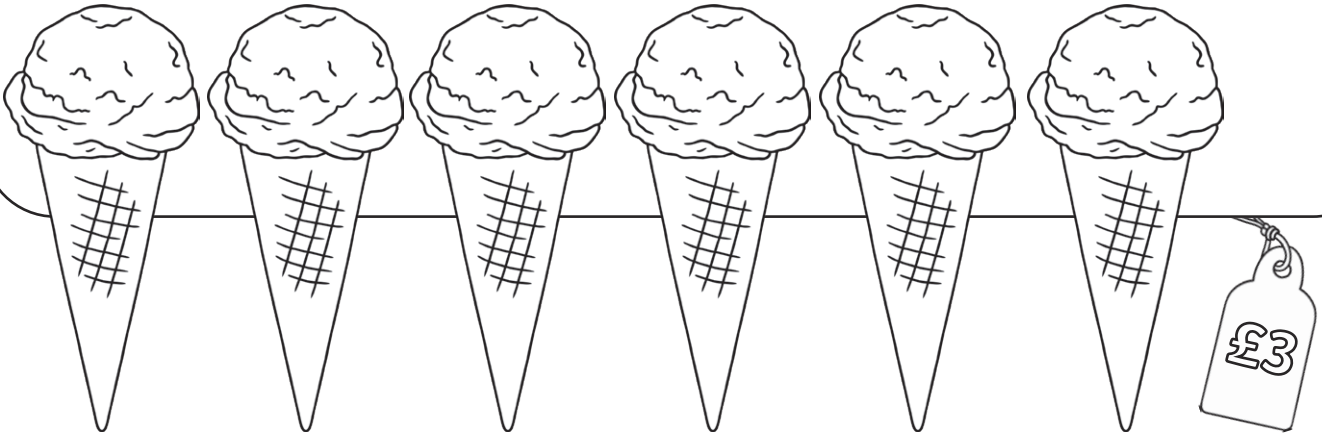


Ratio and Proportion

1

Tom buys 6 ice creams for £3.



a.

How much do 3 ice creams cost?

b.

How much for 12 ice creams?

c.

What would the total for 15 ice creams cost?

2

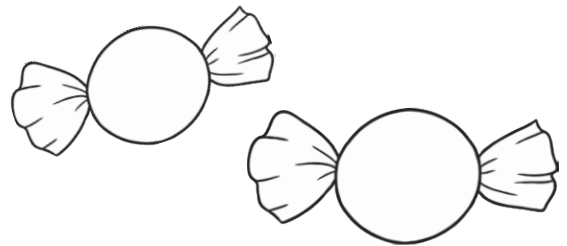
Erin has two boxes of sweets.

In the first box, the ratio of purple and yellow sweets is 3:1. (3:1)(15:5)

In the second box, for every two pink sweets there are three black sweets. (2:3)

There is the same number of sweets in each box.

There are 12 black sweets in the second box. (8:12)



a.

How many sweets are there in total?

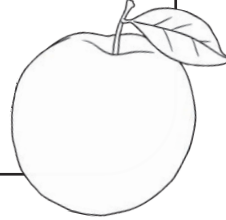
_____ sweets

Ratio and Proportion

3

Holly wants to make a jug of juice for a party. The drink is made using six parts apple juice and four parts lemonade.

Holly makes 1.2 litres of this drink.



a.

How much apple juice does she need?

_____ ml

4

The ratio of blue and yellow cars on the street is 3:1.

a.

Explain what that means.

b.

There are 12 more blue cars than yellow cars on the street.

What is the total number of yellow cars on the street?

_____ yellow cars

Ratio and Proportion

5

Two shops sell the same chocolate but in different-sized packaging.



a.

Which shop is better value for money?

Shop _____

Shop A

50g chocolate bar

£2.10

Shop B

75g chocolate bar

£3.30

6

Callum draws two similar quadrilaterals.

a.

What is the largest possible area for the small rectangle?

_____ cm²

My larger quadrilateral is 3 times the size of the smaller one. 3:1

The perimeter of the larger quadrilateral is 36cm. 36:12

The length and width of both quadrilaterals are even numbers.



Ratio and Proportion

7

Maisie is cooking some chocolate chip muffins for her friends and family. She has the list of some ingredients to make 6 chocolate chip muffins:

Ingredients List

300g self-raising flour

60g butter

72g caster sugar

66g chocolate chip

a.

How much of each ingredient does Maisie need to make 3 muffins?

self-raising flour _____ g

butter _____ g

caster sugar _____ g

chocolate chip _____ g

b.

How much of each ingredient does Maisie need to make 10 muffins?

self-raising flour _____ g

butter _____ g

caster sugar _____ g

chocolate chip _____ g

c.

Maisie has 198g of chocolate chips.

What is the maximum number of muffins she can make?

_____ muffins

8

Imran has emptied his piggy bank. He has some 10p and 50p coins. For every three 10p coins he has, he has one 50p coin.

There are 12 coins in the jar in total.

a.

How much money is in the jar?

Ratio and Proportion **ANSWERS**

1

Tom buys 6 ice creams for £3.

a.

How much do 3 ice creams cost?

£1.50

b.

How much for 12 ice creams?

£6.00

c.

What would the total for 15 ice creams cost?

£7.50

2

Erin has two boxes of sweets. In the first box, the ratio of purple and yellow sweets is 3:1 (3:1)(15:5) In the second box, for every two pink sweets there are three black sweets. (2:3) There is the same number of sweets in each box. There are 12 black sweets in the second box. (8:12)

a.

How many sweets are there in total? **40 sweets**

3

Holly wants to make a jug of juice for a party. The drink is made using six parts apple juice and four parts lemonade. Holly makes 1.2 litres of this drink.

a.

How much apple juice does she need?

720ml

4

The ratio of blue and yellow cars on the street is 3:1

a.

Pupils' own response, such as for every three blue cars there is one yellow car.

Ratio and Proportion **ANSWERS**

b.

There are 12 more blue cars than yellow cars on the street.
What is the total number of yellow cars on the street?

6 yellow cars

5

Two shops sell the same chocolate but in different-sized packaging.

a.

Which shop is better value for money?

Shop A

6

Callum draws two similar quadrilaterals.

a.

What is the largest possible area for the small rectangle?

8 cm²

7

Maisie is cooking some chocolate chip muffins for her friends and family. She has the list of some ingredients to make 6 chocolate chip muffins:

a.

**150g
30g
36g
33g**

b.

**500g
100g
120g
110g**

c.

**18
muffins**

8

Imran has emptied his piggy bank. He has some 10p and 50p coins. For every three 10p coins he has, he has one 50p coin. There are 12 coins in the jar in total. How much money is in the jar? **£2.40**