



Working with Ratio



SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

SCAN ME

1 Divide in 30 the ratio 5 : 1 [2 marks]

Answer _____ and _____



2 Divide in 40 the ratio 2 : 3 [2 marks]

Answer _____ and _____



3 Divide in 200 the ratio 3 : 7 [2 marks]

Answer _____ and _____





4 Adam and Bella share £63 in the ratio 2 : 5
Work out how much money Bella receives. [2 marks]

Answer £ _____

5 A bag contains 32 counters that are either green or blue.
green counters : blue counters = 5 : 3
Work out the number of blue counters in the bag. [2 marks]

Answer _____

6 Alice and Ben share £42 in the ratio 2 : 1
Work out how much money Alice receives. [2 marks]

Answer £ _____





7 A bag contains 40 red counters and some blue counters.

$$\text{red counters} : \text{blue counters} = 5 : 3$$

Work out the number of blue counters.

[2 marks]

Answer _____



8 Charlie and Daisy share some money in the ratio 2 : 5

Charlie receives £28

Work out how much Daisy receives.

[2 marks]

Answer £ _____



9 A piece of rope is cut into two pieces.

$$\text{Length of shorter piece} : \text{length of longer piece} = 4 : 5$$

The longer piece is 90 cm long.

Work out the length of the shorter piece.

[2 marks]

Answer _____ cm

12

Turn over ►





10 Ethan, Freya and Grace share £65 in the ratio 2 : 3 : 5

Work out how much money each of them receives.

[3 marks]

Ethan £ _____

Freya £ _____

Grace £ _____

11 Isla takes part in a triathlon where she must swim, ride a bike and then run.

The ratio of the time she spends swimming, riding and running is:

swimming : riding : running = 5 : 14 : 8

Isla spent 20 minutes running.

Work out how long she spent swimming and riding.

[3 marks]

Time spent swimming _____ minutes

Time spent riding _____ minutes





12 Kai buys one tea, one coffee and one cake from a shop.

price of a tea : price of a coffee : price of a cake = 3 : 5 : 8

Kai pays a total of £6.72

Work out the price of a tea from the shop.

[3 marks]

Answer £ _____

13 A country kept track of the gold, silver and bronze medals they win at a sporting competition.

gold medals : silver medals : bronze medals = 1 : 4 : 7

The country won 24 silver medals.

Work out how many medals the country won in total.

[3 marks]

Answer _____

Turn over ►





14 Leo and Millie share some money in the ratio 2 : 9

Millie receives £35 more than Leo.

Work out how much money Leo receives.

[2 marks]

Answer £ _____

15 A bag contains black and white counters in the ratio 7 : 2

There are 85 more black counters than white counters.

Work out how many counters are in the bag in total.

[2 marks]

Answer _____

16 Hannah uploads the same video to YouTube, TikTok and Instagram.

YouTube views : TikTok views : Instagram views = 7 : 9 : 3

The video receives 14 400 more views on TikTok than YouTube.

Work out how many views the video received on Instagram.

[2 marks]

Answer _____





17 Flour, butter and sugar are used to make biscuits in the ratio shown below.

$$\text{flour} : \text{butter} : \text{sugar} = 3 : 2 : 1$$

Gordan uses 480 g of flour to make biscuits.

Work out how much butter and sugar he should use.

[3 marks]

Butter _____ g

Sugar _____ g

18 Ruby and Paige both throw the shot put.

$$\text{Ruby's distance thrown} : \text{Paige's distance thrown} = 5 : 9$$

Paige threw the shotput 3.6 m further than Ruby.

Work out how far Paige threw the shot put.

[2 marks]

Answer _____ m

Turn over ►





19 Sebastian did three maths exam papers.

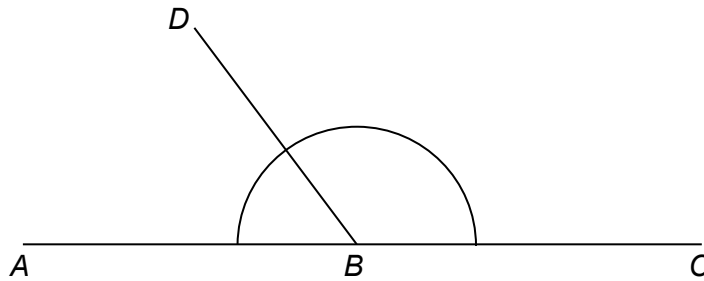
Paper 1 mark : Paper 2 mark : Paper 3 mark = 7 : 6 : 9

Sebastian's Paper 1 mark was greater than 50 but less than 60.

Work out how many marks he scored in total for all three papers. **[3 marks]**

Answer _____

20



ABC is a straight line.

angle ABD : angle DBC = 19 : 26

Work out the size of angle ABD . **[3 marks]**

Answer _____





21 The angles of a triangle are in the ratio 2 : 3 : 7
Show that the triangle has exactly two acute angles. [4 marks]

22 Sky Blue paint is made by mixing blue and white paint as shown below.

Sky Blue Paint
blue : white = 5 : 3

Laura wants to make Sky Blue paint.
She mixes 720 ml of blue paint with 400 ml of white paint.
Work out how much more white paint she should add to make Sky Blue paint. [3 marks]

Answer _____ ml

Turn over ►





23 A drink is made using juice and water in the ratio shown below.

$$\text{juice : water} = 2 : 11$$

Umar has 500 ml of juice and 3000 ml of water.

Work out the maximum amount of drink Umar can make.

[3 marks]

Answer _____ ml

24 A paint mixture is made by mixing yellow and white paint in the ratio shown.

$$\text{yellow : white} = 10 : 3$$

Zaria has 1.8 litres of yellow paint and 600 ml of white paint.

Work out the greatest amount of paint mixture that Zaria can make.

Give your answer in millilitres.

[3 marks]

Answer _____ ml



