

1 Jim thinks of a number.

$\frac{2}{3}$ of Jim's number is 48

Work out $\frac{5}{6}$ of Jim's number.

.....
(Total for Question 1 is 2 marks)

2 (a) Work out $\frac{5}{8} \times \frac{3}{4}$

Summer 2017 Paper 1 Q8

.....
(1)

(b) Work out $\frac{2}{3} - \frac{1}{4}$

.....
(2)

(Total for Question 2 is 3 marks)

3 Sean works for a company.
His normal rate of pay is £12 per hour.

When Sean works more than 8 hours a day, he is paid overtime for each hour he works more than 8 hours.

Sean's rate of overtime pay per hour is $1\frac{1}{4}$ times his normal rate of pay per hour.

On Monday Sean worked for 10 hours.

Work out the total amount of money Sean earned on Monday.

£.....

(Total for Question 3 is 4 marks)

4 Here are four fractions.

$$\frac{2}{5}$$

$$\frac{11}{30}$$

$$\frac{1}{2}$$

$$\frac{7}{15}$$

Write these fractions in order of size.
Start with the smallest fraction.

(Total for Question 4 is 2 marks)

Summer 2017 Paper 3 Q4

5 $\frac{4}{5}$ of a number is 32

Find the number.

(Total for Question 5 is 2 marks)

6 Here are four fractions.

$$\frac{3}{4}$$

$$\frac{5}{7}$$

$$\frac{19}{25}$$

$$\frac{11}{15}$$

Write the fractions in order of size.
Start with the smallest fraction.

(Total for Question 6 is 2 marks)

7 Work out $\frac{1}{8}$ of 720

(Total for Question 7 is 1 mark)

8 Here is a list of four fractions.

$$\frac{4}{16}$$

$$\frac{2}{8}$$

$$\frac{15}{60}$$

$$\frac{3}{9}$$

One of these fractions is **not** equivalent to $\frac{1}{4}$

Write down this fraction.

(Total for Question 8 is 1 mark)

- 9 Last year the cost of a season ticket for a football club was £560
This year the cost of a season ticket for the club has been increased to £600

Write down the increase in the cost of a season ticket as a fraction of last year's cost.

.....

(Total for Question 9 is 2 marks)

- 10 Write the fraction $\frac{28}{70}$ in its simplest form.

.....

(Total for Question 10 is 1 mark)

- 11** Harry has 20 sweets.
He gives 7 of the sweets to Nadia.

What fraction of the 20 sweets does Harry have now?

.....
(Total for Question 11 is 2 marks)

- 12** Find the number that is exactly halfway between $\frac{1}{10}$ and $\frac{3}{5}$

.....
(Total for Question 12 is 2 marks)

13 Find $\frac{1}{3}$ of 30

.....
(Total for Question 13 is 1 mark)

Summer 2019 Paper 1 Q8

14 Write the following fractions in order of size.
Start with the smallest fraction.

$$\frac{1}{3} \quad \frac{3}{4} \quad \frac{1}{4} \quad \frac{7}{12} \quad \frac{1}{2}$$

.....
(Total for Question 14 is 2 marks)

15 (a) Work out $\frac{1}{5}$ of 70

.....
(1)

Fiona has to work out the exact value of $48 \div \frac{1}{2}$

She writes

$$48 \div \frac{1}{2} = 24$$

Fiona's reason is,

“There are 2 halves in 1, so there will be 24 halves in 48”

(b) Explain what is wrong with Fiona's reason.

.....
.....
.....
(1)

(Total for Question 15 is 2 marks)

16 (a) Work out $\frac{2}{3} - \frac{1}{5}$

.....
(2)

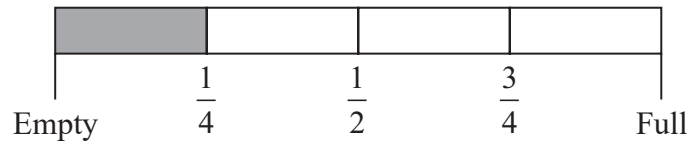
(b) Work out $\frac{2}{3} \times \frac{3}{4}$

Give your answer as a fraction in its simplest form.

.....
(2)

(Total for Question 16 is 4 marks)

17 Here is the gauge for the fuel tank of a car.



The fuel tank holds 52 litres of fuel when the tank is full.

The tank is $\frac{1}{4}$ full of fuel.

Work out how many more litres of fuel are needed to fill the tank.

..... litres

(Total for Question 17 is 3 marks)

Summer 2019 Paper 3 Q10

18 Bill has 400 counters in a bag.

He gives

35 of the counters to Sameena

50 of the counters to Henry

75 of the counters to Lucas

What fraction of the 400 counters is left in Bill's bag?

Give your fraction in its simplest form.

.....

(Total for Question 18 is 3 marks)

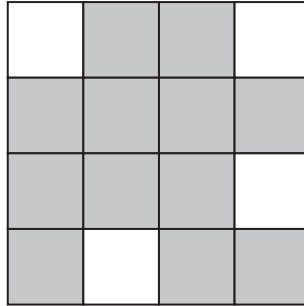
Summer 2020 Paper 3 Q2

19 Work out $\frac{1}{3}$ of 24

.....
(Total for Question 19 is 1 mark)

Summer 2020 Paper 3 Q7

20



What fraction of the shape is shaded?
Give your answer in its simplest form.

.....
(Total for Question 20 is 2 marks)

Autumn 2021 Paper 2 Q10

21 Write 17 as a fraction of 30

.....
(Total for Question 21 is 1 mark)

22 Write the following fractions in order of size.
Start with the smallest fraction.

$$\frac{5}{8} \quad \frac{2}{3} \quad \frac{4}{9} \quad \frac{3}{5}$$

.....
(Total for Question 22 is 2 marks)

23 Work out $\frac{1}{6}$ of 66

.....
(Total for Question 23 is 1 mark)

24 A stadium cost £600 million.

$\frac{13}{15}$ of this cost was for the building.

The rest of the cost was for the land.

Work out the cost of the land.

£..... million

(Total for Question 24 is 3 marks)

25 (a) Work out $\frac{5}{8}$ of 132

.....
(2)

(b) Write the following fractions in order of size.
Start with the smallest fraction.

$$\frac{3}{8} \quad \frac{9}{32} \quad \frac{1}{4} \quad \frac{21}{64}$$

.....
(2)

(Total for Question 25 is 4 marks)

Summer 2022 Paper 2 Q2

26 Write a fraction in the box to make the calculation correct.

$$1 - \frac{3}{10} =$$

(Total for Question 26 is 1 mark)

Summer 2022 Paper 3 Q2

27 Work out $\frac{1}{4}$ of 28

.....
(Total for Question 27 is 1 mark)

28 Write 60 metres as a fraction of 1000 metres.
Give your answer in its simplest form.

.....
(Total for Question 28 is 2 marks)

29 Here are two fractions.

$$\frac{7}{5} \qquad \frac{5}{7}$$

Work out which of the fractions is closer to 1
You must show all your working.

(Total for Question 29 is 3 marks)

30 (a) Work out $\frac{2}{5} + \frac{1}{4}$

.....
(2)

(b) Write down the value of 2^{-3}

.....
(1)

(Total for Question 30 is 3 marks)

31 Here are some fractions.

$$\frac{9}{12} \quad \frac{6}{8} \quad \frac{18}{24} \quad \frac{10}{16} \quad \frac{15}{20}$$

One of these fractions is **not** equivalent to $\frac{3}{4}$

(a) Which fraction?

.....
(1)

(b) Work out $\frac{1}{12} + \frac{5}{6}$

.....
(2)

(Total for Question 31 is 3 marks)

32 (a) Work out $2\frac{1}{7} + 1\frac{1}{4}$

.....
(2)

(b) Work out $1\frac{1}{5} \div \frac{3}{4}$

Give your answer as a mixed number in its simplest form.

.....
(2)

(Total for Question 32 is 4 marks)

33 Work out $1\frac{3}{4} \times 1\frac{1}{3}$

Give your answer as a mixed number.

.....
(Total for Question 33 is 3 marks)

Summer 2020 Paper 1 Q21

34 Show that

$$2\frac{1}{3} \times 3\frac{3}{4} = 8\frac{3}{4}$$

(Total for Question 34 is 3 marks)

Summer 2020 Paper 2 Q19

35 Adam, Linda and Rytis share an amount of money.

Linda gets three times as much money as Rytis gets.
Linda gets half as much money as Adam gets.

What fraction of the amount of money does Linda get?

.....
(Total for Question 35 is 2 marks)

Autumn 2021 Paper 1 Q22

36 Work out $4\frac{1}{5} - 2\frac{2}{3}$

Give your answer as a mixed number.

.....
(Total for Question 36 is 3 marks)

37 (a) Work out $1\frac{3}{5} + 2\frac{1}{4}$

Give your answer as a mixed number.

.....
(2)

(b) Show that $2\frac{2}{3} \div 6 = \frac{4}{9}$

(2)

(Total for Question 37 is 4 marks)

38 (a) Work out $\frac{5}{12} + \frac{1}{6}$

.....
(2)

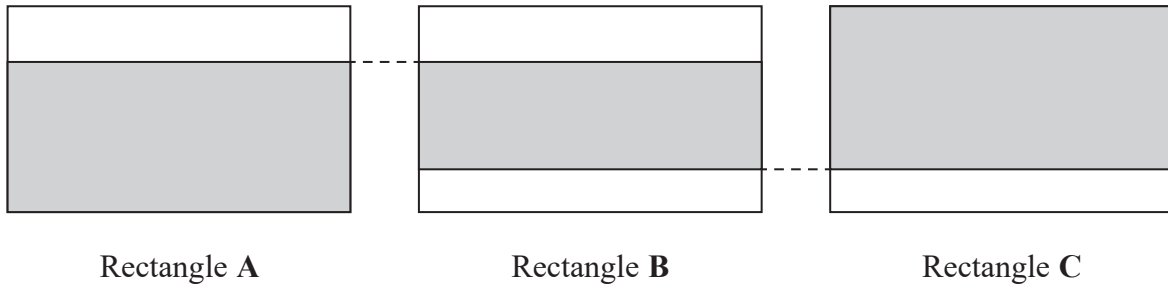
(b) Work out $\frac{3}{10} \times \frac{5}{8}$

Give your answer as a fraction in its simplest form.

.....
(2)

(Total for Question 38 is 4 marks)

39 The diagram shows three identical rectangles A, B and C.



$\frac{5}{8}$ of rectangle A is shaded.

$\frac{9}{11}$ of rectangle C is shaded.

Work out the fraction of rectangle B that is shaded.

.....
(Total for Question 39 is 3 marks)