

FRACTIONS

Pearson Edexcel - Tuesday 19 May 2020 - Paper 1 (Non-Calculator) Foundation Tier

1.

21 Show that

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

(Total for Question 21 is 3 marks)

Pearson Edexcel - Tuesday 21 May 2019 - Paper 1 (Non-Calculator) Foundation Tier

2.

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

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

Give your answer as a fraction in its simplest form.

.....
(2)

(Total for Question 19 is 4 marks)

Pearson Edexcel - Tuesday 6 November 2018 - Paper 1 (Non-Calculator) Foundation Tier

3.

11 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 11 is 3 marks)

Pearson Edexcel - Thursday 24 May 2018 - Paper 1 (Non-Calculator) Foundation Tier

4.

19 (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 19 is 4 marks)

Pearson Edexcel - Thursday 2 November 2017 - Paper 1 (Non-Calculator) Foundation Tier

5.

14 Here are two fractions.

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

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

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

(Total for Question 14 is 3 marks)

6.

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

.....
(2)

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

.....
(1)

(Total for Question 22 is 3 marks)

Pearson Edexcel – Specimen 1 - Paper 2 (Calculator) Foundation Tier

7.

19 Lethna worked out $\frac{2}{5} + \frac{1}{2}$

She wrote:

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

The answer of $\frac{3}{10}$ is wrong.

(a) Describe one mistake that Lethna made.

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

Dave worked out $1\frac{1}{2} \times 5\frac{1}{3}$

He wrote:

$$1 \times 5 = 5 \quad \text{and} \quad \frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$$

$$\text{so} \quad 1\frac{1}{2} \times 5\frac{1}{3} = 5\frac{1}{6}$$

The answer of $5\frac{1}{6}$ is wrong.

(b) Describe one mistake that Dave made.

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

(Total for Question 19 is 2 marks)

Pearson Edexcel – Specimen 1 - Paper 3 (Calculator) Foundation Tier

8.

2 Work out $\frac{30 + 12}{5 + 3}$

(Total for Question 2 is 1 mark)

Pearson Edexcel – Sample Paper 1 (Non-Calculator) Foundation Tier

9.

- 16 Sam buys 20 boxes of oranges.
There are 25 oranges in each box.
Each boxes of oranges costs £7
Sam sells $\frac{2}{5}$ of the oranges he bought.
He sells each of these oranges for 40p.
He then sells each of the remaining oranges at 3 oranges for 50p.
Did Sam make a profit or did Sam make a loss?
You must show working to justify your answer.

$$20 \times 25 = 500 \text{ oranges}$$
$$20 \times 7 = \underline{\underline{140}} \text{ cost.}$$

$$\frac{2}{5} \text{ of } 500 = 200$$

$$200 \times 0.4 = \underline{\underline{80}}$$

300 left

$$100 \times 50\text{p} = \underline{\underline{50}}$$

$$\text{Total income} = \underline{\underline{130}}$$

Sam made a £10 loss

(Total for Question 16 is 5 marks)

Pearson Edexcel – Sample Paper 1 (Non-Calculator) Foundation Tier

10.

18 (a) Work out $\frac{2}{7} + \frac{1}{5}$

$$\frac{10}{35} + \frac{7}{35} = \frac{17}{35}$$

$$\frac{17}{35}$$

(2)

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

$$\frac{5}{3} \div \frac{3}{4}$$

$$\frac{5}{3} \times \frac{4}{3} = \frac{20}{9} \text{ or } 2\frac{2}{9}$$

$$\frac{20}{9}$$

(2)

(Total for Question 18 is 4 marks)

OCR Thursday 6 June 2019 – Morning (Non-Calculator) Foundation Tier

11.

3 (a) Complete each statement.

(i) $\frac{3}{7} = \frac{\dots\dots}{28}$

[1]

(ii) $4\frac{1}{2} = \frac{\dots\dots}{2}$

[1]

(b) Work out.

$$\frac{2}{3} - \frac{1}{5}$$

(b) [2]

OCR Monday 12 November 2018 – Morning (Calculator) Foundation Tier

12.

9 Danisha is going to visit two of these places.

London Eye (LE) Buckingham Palace (BP) Tower of London (TL) British Museum (BM)

(a) List all the combinations of these places that she can visit.
One combination is already shown in the table.
You may not need all the rows.

LE	BP

[2]

(b) What fraction of the combinations include the London Eye (LE)?

(b) [1]

OCR Thursday 7 June 2018 – Morning (Non Calculator) Foundation Tier

13.

13 (a) Calculate.

$$\frac{3}{5} + \frac{5}{8}$$

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

(a) [3]

(b) Work out.

$$5 \times 10^4 - 1.6 \times 10^3$$

Give your answer in standard form.

(b) [3]

OCR Tuesday 12 June 2018– Morning (Calculator) Foundation Tier

14.

3 Calculate.

(a) $\frac{3.6}{1.2 - 0.3}$

(a) [1]

(b) $\sqrt{12.25^3}$
Give your answer correct to 1 decimal place.

(b) [2]

OCR Tuesday 12 June 2018– Morning (Calculator) Foundation Tier

15.

19 Asha worked out $\frac{326.8 \times (6.94 - 3.4)}{59.4}$.

She got an answer of 19.5, correct to 3 significant figures.

Write each number correct to 1 significant figure to decide if Asha's answer is reasonable.

.....
..... [3]

OCR Wednesday 8 November 2017– Morning (Calculator) Foundation Tier

16.

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

(a) [1]

(b) The fraction $\frac{n}{16}$ is between $\frac{1}{4}$ and $\frac{1}{2}$,

Write down all the possible values of n .

(b) [2]

OCR Thursday 8 June 2017 – Morning (Non - Calculator) Foundation Tier

17.

2 (a) Work out.

(i) $6\frac{1}{2} + \frac{3}{4}$

(a)(i) [1]

(ii) $\frac{4}{7}$ of 63

(ii) [2]

(b) Show that $\frac{4}{5}$ is bigger than $\frac{7}{9}$.

.....
..... [2]

(c) Find a fraction which is bigger than $\frac{1}{5}$ and smaller than $\frac{1}{4}$.

(c) [2]

OCR Thursday 8 June 2017 – Morning (Non - Calculator) Foundation Tier

18.

14 Work out $\frac{2}{15} \times \frac{15}{22}$.

Give your answer in its lowest terms.

..... [2]

AQA Wednesday 8 November 2017 – Morning (Calculator) Foundation Tier

19.

16 A train has 1 first-class carriage and 6 standard carriages.

The first-class carriage has 64 seats.

$\frac{3}{8}$ are being used.

Each standard carriage has 78 seats.

$\frac{7}{13}$ in each carriage are being used.

Are **more than** half the seats on the train being used?

You **must** show your working.

[5 marks]

Answer _____

AQA Sample Paper 1– Morning (Non-Calculator) Foundation Tier

20.

9 Write 180 g as a fraction of 3 kg

Give your answer in its simplest form.

[2 marks]

Answer _____

AQA Sample Paper 2– Morning (Calculator) Foundation Tier

21.

24 In a sale, the original price of a bag was reduced by $\frac{1}{5}$
The sale price of the bag is £29.40

Work out the original price.

[3 marks]

Answer £ _____