FRACTIONS

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

- 1.
- 2 Show that

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

(Total for Question 2 is 3 marks)

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

2.

9 Work out $3\frac{1}{2} \times 1\frac{3}{5}$ Give your answer as a mixed number in its simplest form.

(Total for Question 9 is 3 marks)

Pearson Edexcel - Thursday 8 November 2018 - Paper 2 (Calculator) Higher Tier

3.



(3)

(b) Express $\frac{3}{x+1} + \frac{1}{x-2} - \frac{4}{x}$ as a single fraction in its simplest form.

(3)

(Total for Question 12 is 6 marks)

23 The diagram shows a container for grain.

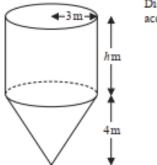


Diagram NOT accurately drawn

The container is a cylinder on top of a cone.

The cylinder has a radius of $3 \, \mathrm{m}$ and a height of $h \, \mathrm{m}$.

The cone has a base radius of 3 m and a vertical height of 4 m.

The container is empty.

The container is then filled with grain at a constant rate.

After 5 hours the depth of the grain is 6 metres above the vertex of the cone.

After 9 hours the container is full of grain.

Work out the value of h.

Give your answer as a fraction in its simplest form.

You must show all your working.

(Total for Question 23 is 5 marks)

16. (a) Work out
$$\frac{2}{3} + \frac{5}{6}$$

Give your fraction in its simplest form.

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

(Total 6 marks)

Pearson Edexcel - Friday 10 June 2011 - Paper 4 (Calculator) Higher Tier

6.

7. Bob has 120 beads.

The beads are either red or green.

Bob gives $\frac{3}{4}$ of the beads to his friend. $\frac{2}{3}$ of the beads Bob now has are red.

Work out how many green beads Bob now has.

Pearson Edexcel - Tuesday 9 November 2010 - Paper 3 (Non-Calculator) Higher Tier

7.

18. (a) Work out $2\frac{17}{20} - 1\frac{2}{5}$

(3)

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

(3)

(Total 6 marks)

Pearson Edexcel - Monday 7 June 2010 - Paper 3 (Non-Calculator) Higher Tier

- 11. There are 300 people in the cinema.
 - $\frac{1}{6}$ of the 300 people are boys.
 - $\frac{3}{10}$ of the 300 people are girls.

The rest of the people are adults.

Work out how many people are adults.

(Total 4 marks)

Pearson Edexcel - Monday 7 June 2010 - Paper 3 (Non-Calculator) Higher Tier 9.

16. Work out $3\frac{1}{4} \times 2\frac{2}{3}$

Give your answer in its simplest form.

(Total 3 marks)

Pearson Edexcel - Thursday 5 November 2009 - Paper 3 (Non-Calculator) Higher Tier 10.



Give your answer in its simplest form.

(2)

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

(2)

(c) Work out 423 × 12

You must show all your working.

(3)

(Total 7 marks)

OCR GSCE – Thursday 5 November 2020 – Paper 5 (Non-Calculator) Higher Tier 11.

- 5 Charlie and Jasmine share cartons of apple juice.
 - Charlie drinks $\frac{1}{3}$ of a carton every day.
 - Jasmine drinks $\frac{2}{5}$ of a carton every day.

Any apple juice left in a carton at the end of the day is used the following day.

The cost of a carton is 70p. Charlie and Jasmine buy just enough cartons to last them for 10 days.

How much do they spend in total for these cartons? Give your answer in \mathfrak{L} . Show your working.

OCR GSCE – Monday 9 November 2020 – Paper 6 (Calculator) Higher Tier

12.

21 Write as a single fraction in its simplest form.

$$\frac{x}{x+2} + \frac{x+1}{x-2} - \frac{6x}{x^2-4}$$

OCR GSCE – Thursday 6 June 2019 – Paper 5 (Non-Calculator) Higher Tier

13.

8 Mrs Mills buys 4 packs of treats for her cats, Fluff and Tigger.

She gives Fluff $\frac{1}{6}$ of a pack each day.

She gives Tigger $\frac{1}{5}$ of a pack each day.

For how many complete days will the 4 packs of treats last?