N34 Comparing and Ordering Fractions

OCR

8 (a) By converting each fraction to a percentage, show that $\frac{9}{20}$ is bigger than $\frac{11}{25}$. [2]

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100

$$\frac{9}{20} = \frac{45}{100} = 45$$

11 = 44 25 = (00 = 44).

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(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]

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

 $\frac{36}{45}$ > $\frac{35}{45}$ /

.....[2]

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

<u>t</u>

5/20

8/49

10

40....[2]

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]

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

- (a) 7 [1
- **(b)** The fraction $\frac{6}{16}$ is between $\frac{1}{4}$ and $\frac{1}{2}$,

Write down all the possible values of n.

1 1 2

16 16 16 16 16

(b) 5 Gnd + [2

Edexcel

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)

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.

XP

 $\frac{1}{3}$

15/30

14

30 /5 /15 /2

(Total for Question 4 is 2 marks)

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6 Here are four fractions.

N34 N46 $\frac{3}{4}$

 $\frac{5}{7}$

 $\frac{19}{25}$

 $\frac{11}{15}$

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

(Total for Question 6 is 2 marks)

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6 Here are four fractions.

N34 N46 $\frac{3}{4}$

Decimals

fractions in order of size

0.714 0.76 $\frac{5}{7}$ $\frac{19}{25}$

0.73 $\frac{11}{15}$

Write the fractions in order of size.

Start with the smallest fraction.

5 11 3 19 7 , 15 , 4 , 25

(Total for Question 6 is 2 marks)

AQA

3 Circle the fraction greater than $\frac{3}{10}$

N34

[1 mark]

 $\frac{1}{3}$

 $\frac{3}{11}$

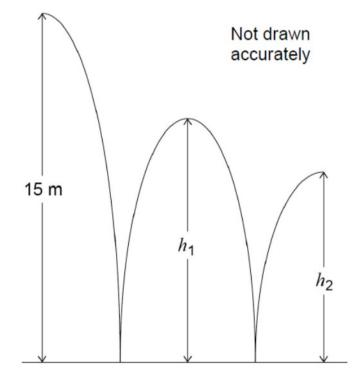
4 15 29 100

Circle the fraction greater than $\frac{3}{10}$ $\bigcirc \cdot 3$ 3

N34

[1 mark]

It bounces to height h_1 , then to height h_2 as shown.



 h_1 is three quarters of the original height.

26 (b) N34

In fact, h_2 is two thirds of h_1

How does this affect the answer to part (a)?

Tick a box.

The ball bounced higher than he expected

The ball bounced lower than he expected

Show working to support your answer. [2 marks]

A ball is thrown from a height of 15 metres. Video created by W Neill It bounces to height h_1 , then to height h_2 as shown. (b) N34 Not drawn accurately In fact, h_2 is two thirds of h_1 11.25 How does this affect the answer to part (a)? Tick a box. The ball bounced higher than he expected 15 m h_1 The ball bounced lower than he expected [2 marks] Show working to support your answer. h_1 is three quarters of the original height.