

Knowledge Organiser: FDP



Key Terms:

Fraction: A fraction is made up of a numerator (top) and a denominator (bottom). **Integer:** Whole number. Ascending Order: Place in order, smallest to largest. **Descending Order:** Place in order, largest to smallest. Percentage: Out of one hundred. **Decimal:** A decimal is a fraction written in a special form e.g. 0.6. **Hegarty maths clip numbers** FDP: 52, 55, 73 – 76, 82 – 83 hegartymaths

You need to be able to:

- Convert between simple fractions, decimals and percentages.
- Convert between fractions and recurring decimals and percentages.
- Compare fractions, decimals and percentages.
- Order fractions, decimals and percentages by converting.



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What you need to know:

Comparing FDP

To be able to compare values, we need to get them in the same format.

Example: Which is bigger 78% or 0.8?

We can either change the 0.8 into a percentage or the 78% into a decimal.

0.8 = 80%



Ordering FDP

To be able to order FDP, we need to write them all in the same format.

Example: Order from smallest to largest
$$\frac{1}{4}$$
 0.19 0.3 26% $\frac{1}{5}$

You can choose to convert them all into fractions, decimals or percentages as long as you convert them all into the same.

Changing them to percentages:

 $\frac{1}{4} = 25\%$ 0.19 = 19% 0.3 = 30% $\frac{1}{5} = 20\%$ 25%, 19%, 30%, 26%, 20%

From smallest to biggest:

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19%, 20%, 25%, 26%, 30%
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Answer:

$$0.19, \frac{1}{5}, \frac{1}{4}, 26\%, 0.3$$

Make sure you write your answer using the original numbers in the question.

87 is bigger than 85 so the answer is 0.87.