



Maths

Fractions, Decimals & Percentages

Y6

Knowledge

- Three decimal places
- Decimals as fractions
- Fractions to decimals
- Fractions to percentages
- Equivalent FDP

Skills

- Multiply by 10, 100 and 1000
- Divide by 10, 100 and 1000
- Multiply decimals by integers
- Divide decimals by integers
- Division to solve problems
- Order FDP
- Percentage of an amount
- Percentages – missing values

Vocabulary

Percent (%), percentage, discount, equivalent fraction, equivalent decimal, convert, compare, order, the whole, part-whole

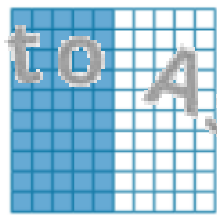
Fractions to Percentages

To convert fractions to percentages the denominator must be made 100.

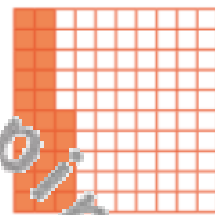
$$\frac{15}{50} = \frac{30}{100} = 0.3 = 30\%$$

$$\frac{60}{200} = \frac{30}{100} = 0.3 = 30\%$$

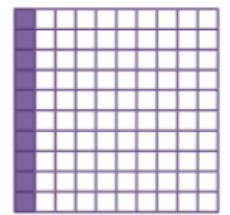
Equivalent FDP



$$\frac{30}{100} = \frac{1}{2} = 0.5 = 50\%$$



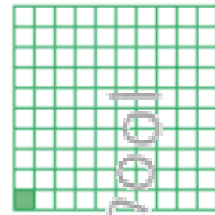
$$\frac{25}{100} = \frac{1}{4} = 0.25 = 25\%$$



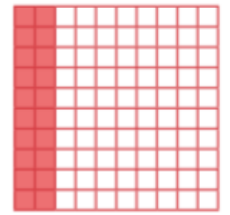
$$\frac{10}{100} = \frac{1}{10} = 0.1 = 10\%$$



$$\frac{75}{100} = \frac{3}{4} = 0.75 = 75\%$$

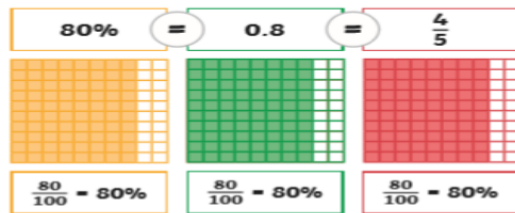
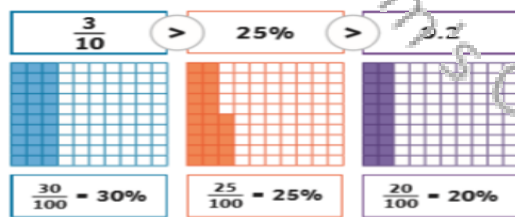


$$\frac{1}{100} = 0.01 = 1\%$$



$$\frac{20}{100} = \frac{2}{10} = 0.2 = 20\%$$

Order FDP



Percentages of Amounts

To find 50% of a number you divide by 2.

$$450 \div 2 = 225$$

To find 10% of a number you divide by 10.

$$450 \div 10 = 45$$

To find 25% of a number you divide by 4.

$$450 \div 4 = 112.5$$

To find 1% of a number you divide by 100.

$$450 \div 100 = 4.5$$

