Converting between Fractions, Decimals and Percentages Lesson 3: Converting Fractions to Decimals and Percentages

twinkl

Learning Objective

To develop an understanding of how to convert fractions to decimals and percentages.

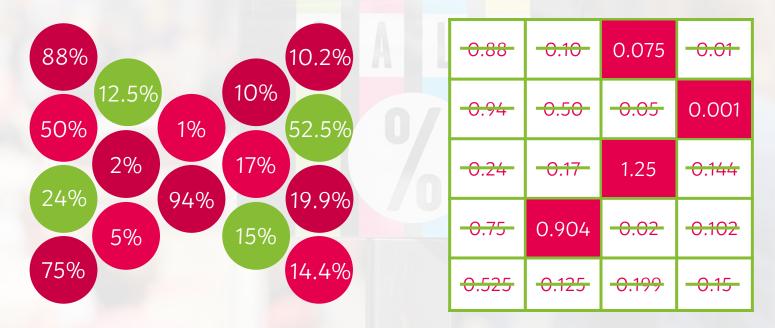
Targeting Assessment Objective: A01

Success Criteria

- To divide numbers using the bus stop method.
- To convert a fraction to a decimal.
- To convert a fraction to a percentage.

Conversion Grid

Convert each percentage to a decimal and cross off the answer on the grid. There will be 4 decimals at the end which will not have been crossed off. Add these together to find the final answer.



Answer: 0.904 + 0.075 + 0.001 + 1.25 = 2.23

Converting Fractions to Decimals

To convert a fraction to decimal, we divide the numerator by the denominator.

Convert $\frac{3}{4}$ to a decimal = 0.75

1. Divide the numerator by the denominator: $3 \div 4$

- 2. Use the bus stop method to calculate the answer:
 - 0.75 4 3.³0²0

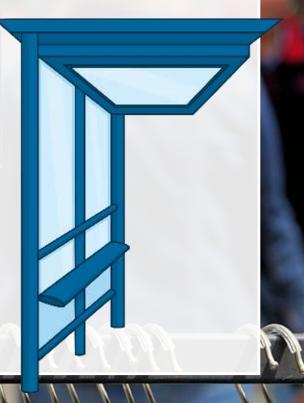


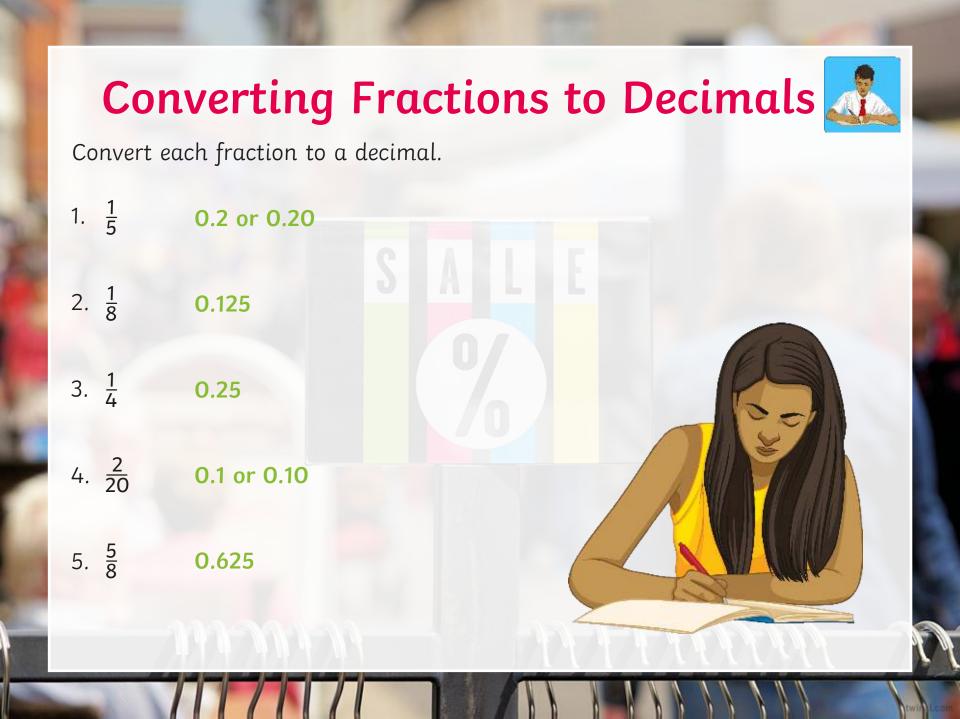
Converting Fractions to Decimals

To convert a fraction to decimal, we divide the numerator by the denominator.

Convert $\frac{2}{5}$ to a decimal = 0.4

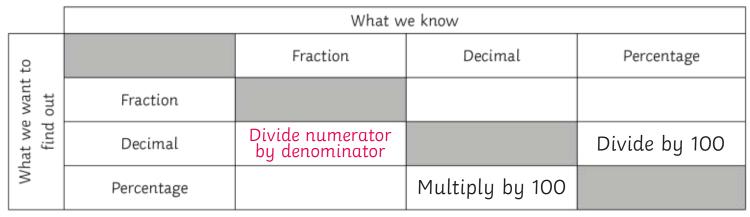
- 1. Divide the numerator by the denominator: $2 \div 5$
- 2. Use the bus stop method to calculate the answer:
 - 0.4 5 2.²0





F.D.P. Grid

F.D.P. Grid





Converting Fractions to Percentages

To convert a fraction to a percentage, we must first convert the fraction to a decimal:

Convert $\frac{3}{5}$ to a decimal = 60%

- 1. Divide the numerator by the denominator: $3 \div 5$
- 2. Use the bus stop method to calculate the answer:

How do we convert a decimal to a percentage?

0.6

5 3.³0

Multiply the decimal by 100. $0.6 \times 100 = 60$



Converting Fractions to Percentages

To convert a fraction to a percentage, we must first convert the fraction to a decimal:

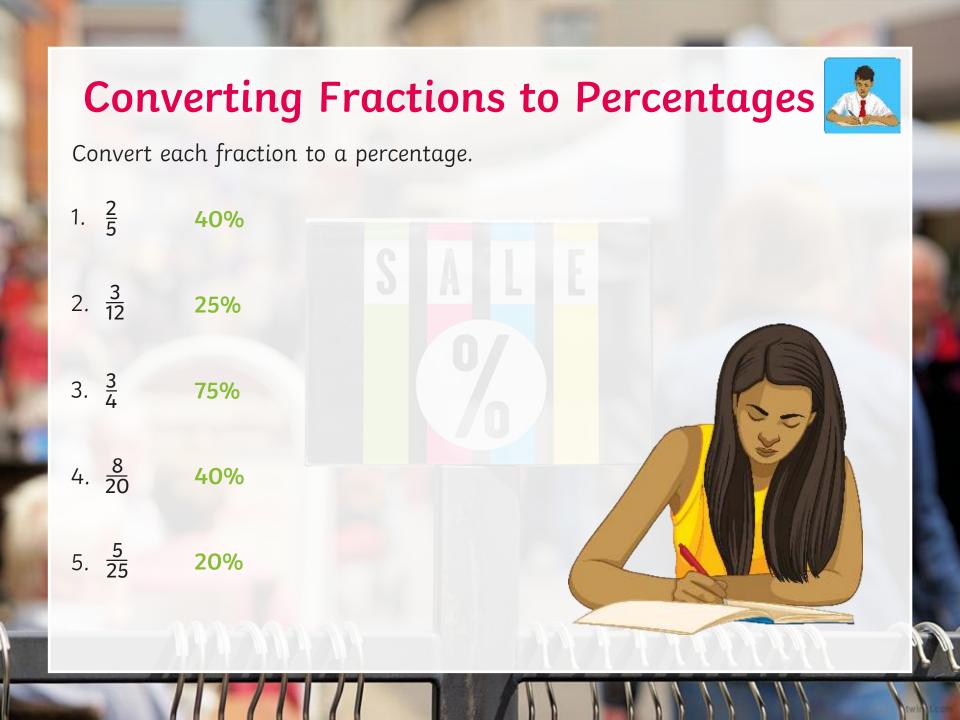
Convert $\frac{2}{8}$ to a decimal = 25%

- 1. Divide the numerator by the denominator: 2 ÷ 8
- 2. Use the bus stop method to calculate the answer:

0.25 82.²0⁴0

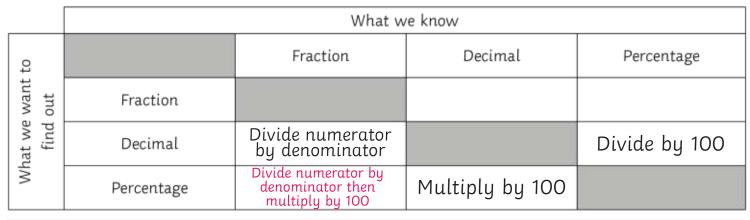
3. Multiply the decimal by 100. 0.25 × 100 = 25





F.D.P. Grid

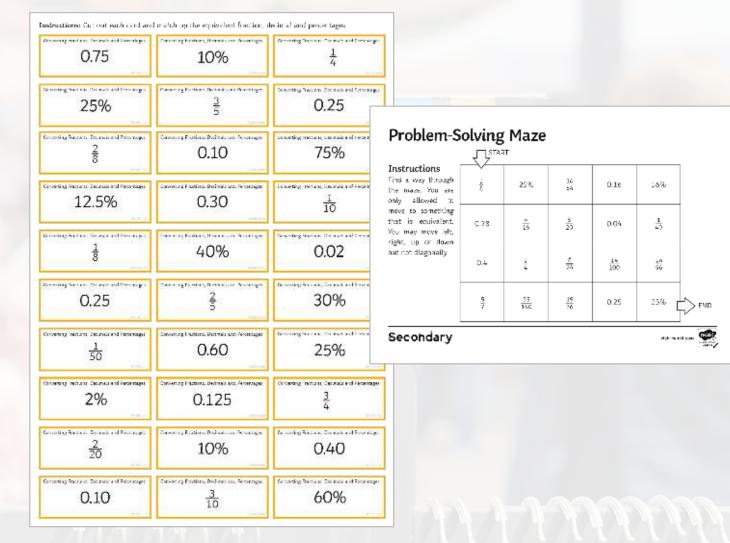
F.D.P. Grid





Maths

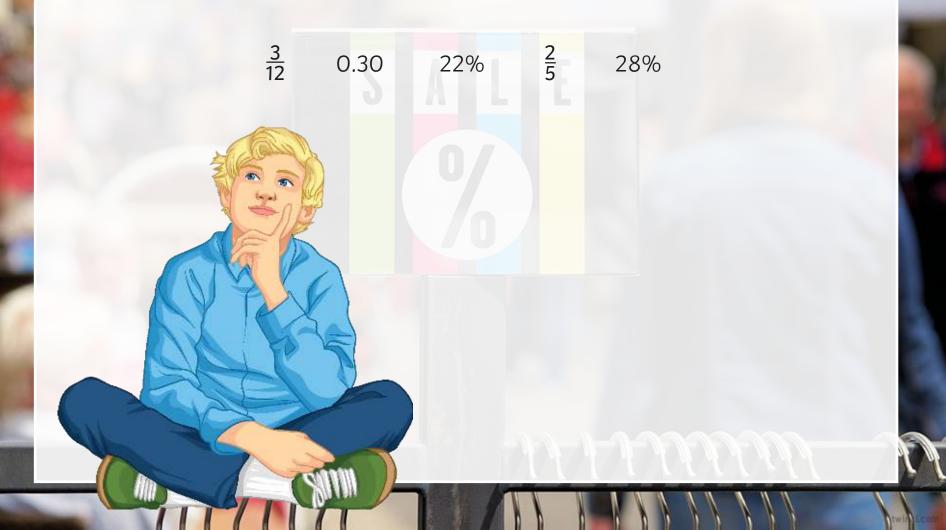
Your Turn



What Order?



Order the following from smallest to largest:



What Order?



Order the following from smallest to largest:

 $\frac{3}{12}$ 0.30 22% $\frac{2}{5}$ 28%

First, you must convert them to the same unit, for example all percentages:

22%

40%

28%

Now, you are able to order them from smallest to largest:

30%

25%

gou are able to order them from smallest to largest.

22% 25% 28% 30% 40%

The last step is to use the original units in your final answer:

 $22\% \quad \frac{3}{12} \quad 28\% \quad 0.30 \quad \frac{2}{5}$

