# Homework/Extension Step 1: Fractions to Percentages

# National Curriculum Objectives:

Mathematics Year 6: (6F11) <u>Recall and use equivalences between simple fractions,</u> decimals and percentages, including in different contexts

## Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Tick the fractions that are equal to a given percentage, where the denominators are 10 or 100.

Expected Tick the fractions that are equal to a given percentage, where the denominators are factors of 100.

Greater Depth Tick the fractions that are equal to a given percentage, where the denominators are not always factors of 100.

Questions 2, 5 and 8 (Varied Fluency)

Developing Convert the fractions to percentages, where the denominator is 10 or 100. Expected Convert the fractions to percentages, where the denominator is a factor of 100. Greater Depth Convert the fractions to percentages, where the denominator is not always a factor of 100.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

**Developing** Explain the mistake when a fraction and percentage of a larger square is shaded, where total number of smaller squares is 10.

Expected Explain the mistake when a fraction and percentage of a larger square is shaded, where total number of smaller squares is a factor of 100.

Greater Depth Explain the mistake when a fraction and percentage of a larger square is shaded, where total number of smaller squares is not a factor of 100.

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Homework/Extension – Fractions to Percentages – Teaching Information

## Fractions to Percentages



Homework/Extension – Fractions to Percentages– Year 6 Developing

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### Fractions to Percentages



Homework/Extension – Fractions to Percentages– Year 6 Expected

# Fractions to Percentages



### Homework/Extension Fractions to Percentages

#### Developing

- 1.  $\frac{3}{10}$  and  $\frac{30}{100}$
- 2. 80%, 50%, 20%, 75%, 10%, 48%

3. Jerry has forgotten that a percentage is out of 100, so 60% is shaded because each small square is worth 10%, not 1%.

#### **Expected**

- 4.  $\frac{2}{5}$  ,  $\frac{10}{25}$  and  $\frac{4}{10}$
- 5. 32%, 80%, 72%, 45%, 20%, 25%

6. Jade has incorrectly converted  $\frac{12}{20}$  to 70%. If you divide the 12 and 20 by 4 then the equivalent fraction is  $\frac{3}{5}$  which equals 60%.

#### Greater Depth

- 7.  $\frac{27}{45}$ ,  $\frac{39}{65}$  and  $\frac{48}{80}$
- 8. 25%, 50%, 55%, 87.5%, 62.5%, 60%

9. Joe is incorrectly calculated the amount of squares he needs to shade. 14 of the 35 squares are shaded, which is 40% of the shape. To shade 80%, he needs to double the amount of squares shaded. Therefore, he must shade 14 more squares, not 10.  $\frac{28}{35}$  is equal to 80%.



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Homework/Extension – Fractions to Percentages ANSWERS