Homework/Extension
Step 1: Fractions to Percentages

National Curriculum Objectives:

Mathematics Year 6: (6F11) Recall and use equivalences between simple fractions, 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.

More Year 6 Percentages resources.

Did you like this resource? Don't forget to review it on our website.

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Fractions to Percentages

1. Tick the fractions that are equal to 30%.

$\frac{30}{10}$ $\frac{30}{100}$ $\frac{3}{100}$ $\frac{1}{10}$ $\frac{3}{10}$ $\frac{33}{100}$
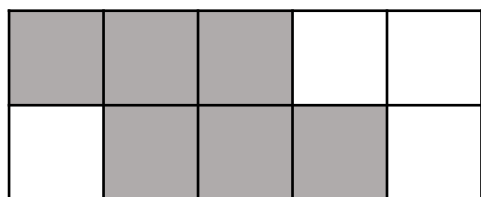
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2. Convert each fraction to a percentage.

$\frac{8}{10}$ $\frac{50}{100}$ $\frac{2}{10}$ $\frac{75}{100}$ $\frac{1}{10}$ $\frac{48}{100}$

%	%	%	%	%	%

3. Jerry says,

> I think that 6% of the rectangle is shaded because 6 squares are shaded.

Explain his mistake.

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Homework/Extension – Fractions to Percentages– Year 6 Developing

Fractions to Percentages

4. Tick the fractions that are equal to 40%.

$$\frac{9}{20} \qquad \frac{2}{5} \qquad \frac{15}{50} \qquad \frac{10}{25} \qquad \frac{4}{10} \qquad \frac{2}{4}$$

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HW/Ext

5. Convert each fraction to a percentage.

$$\frac{8}{25} \qquad \frac{4}{5} \qquad \frac{36}{50} \qquad \frac{9}{20} \qquad \frac{2}{10} \qquad \frac{1}{4}$$
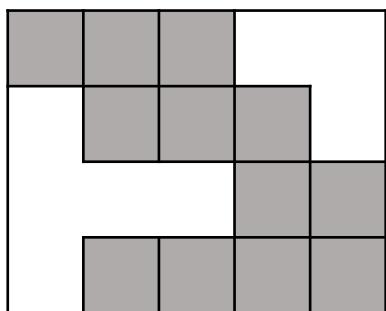
%	%	%	%	%	%

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6. Jade says,

I think that 70% of the rectangle is shaded because $\frac{12}{20}$ converted to a percentage is 70%.

Explain her mistake.

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Homework/Extension – Fractions to Percentages– Year 6 Expected

Fractions to Percentages

7. Tick the fractions that are equal to 60%.

$\dfrac{27}{45}$ $\dfrac{27}{36}$ $\dfrac{39}{65}$ $\dfrac{45}{60}$ $\dfrac{48}{80}$ $\dfrac{25}{40}$

8. Convert each fraction to a percentage.

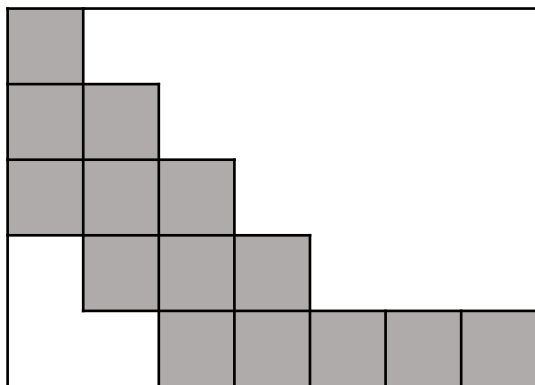$\dfrac{13}{52}$ $\dfrac{18}{36}$ $\dfrac{22}{40}$ $\dfrac{28}{32}$ $\dfrac{35}{56}$ $\dfrac{18}{30}$

%	%	%	%	%	%

9. Joe says,

> For 80% of the shape to be shaded, I need to colour in 10 more squares.

Explain his mistake.

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Homework/Extension – Fractions to Percentages– Year 6 Greater Depth

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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