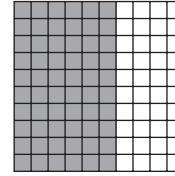


Understanding Percent

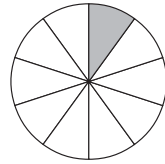
A percent is a ratio that compares a part to a whole.
The second term in the ratio is always 100.
The whole is 100%.
The grid has 60 of 100 squares shaded.

$$\frac{60}{100} = 60\%$$

So, 60% of the grid is shaded.



When the second term of a ratio is not 100, you can write an equivalent ratio with a denominator of 100 or use a proportion to find the percent shown by the part.



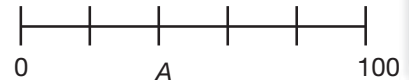
$$\frac{1}{10} = \frac{10}{100} = 10\% \quad \text{or} \quad \frac{1}{10} = \frac{x}{100}$$

$$10x = 100$$

$$x = 10$$

So, 10% of the circle is shaded.

The line segment represents 100%.
What percent is shown by Point A?



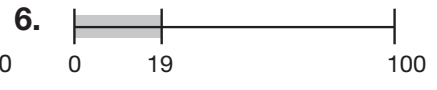
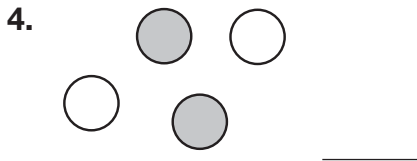
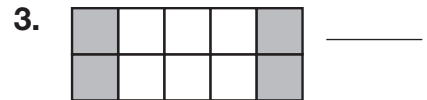
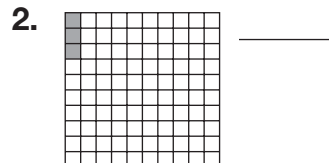
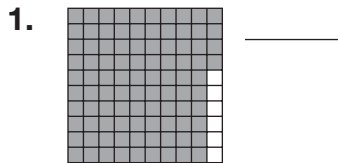
$$\frac{2}{5} = \frac{40}{100} = 40\% \quad \text{or} \quad \frac{2}{5} = \frac{x}{100}$$

$$5x = 200$$

$$x = 40$$

So, 40% of the line segment is shaded.

Write the percent of each figure that is shaded.



7. **Number Sense** Jana divided a sheet of paper into 5 equal sections and colored 2 of the sections red. What percent of the paper did she color? _____

8. **Writing to Explain** Shade each model to show 100%. Explain how you knew how many parts to shade.

