

Understanding Percent with Grids

Name: _____ Date: _____

LEARNING OBJECTIVE

Student will be able to represent, convert, and calculate percentages using a 10x10 grid model.

MATERIALS NEEDED

- Graph paper or a printed 10x10 grid
- ruler
- two colors of pencil or marker
- pencil

HANDS-ON ACTIVITY

1. Draw or use a 10x10 grid (100 total squares) on your paper.
2. Color 37 squares one color to represent 37%; leave the rest blank.
3. Below the grid, write the equivalent fraction ($\frac{37}{100}$) and decimal (0.37) for that percent.
4. Draw 2 more separate 10x10 grids and color them to represent 60% and 8%; write the fraction and decimal for each.
5. Find and color the overlap between your 37% and 60% grids conceptually by writing what percent, fraction, and decimal would represent their sum ($37\% + 60\%$) on a 4th grid.

QUESTIONS

1. What fraction and decimal are equivalent to 37%?

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2. How did you represent 8% on a 100-square grid, and why is this different from 80%?

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3. What is $37\% + 60\%$ as a percent, fraction, and decimal?

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4. If a grid represents a class of 100 students and 37% play a sport, how many students is that? What if the class only has 25 students?
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