

Percentages, Fractions, and Decimals



Use the diagram to write the shaded amount as a fraction, decimal, and percentage.

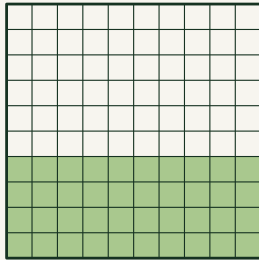
Name _____

Date _____

Show your method

Write the shaded amount as a fraction first, then simplify it. Divide the numerator by the denominator for the decimal, then multiply the decimal by 100 for the percentage.

Worked example Write the shaded amount shown as a fraction (simplest form), a decimal, and a percentage.



Shaded: 40 out of 100 squares.

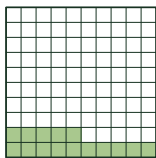
Fraction: $\frac{40}{100} = \frac{2}{5}$

Decimal: $2 \div 5 = 0.4$

Percentage: $0.4 \times 100 = 40\%$

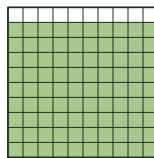
1. Write the shaded amount as a fraction, decimal, and percentage.

Solution: $\frac{15}{100} = \frac{3}{20} = 0.15 = 15\%$



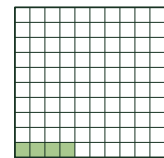
2. Write the shaded amount as a fraction, decimal, and percentage.

Solution: $\frac{90}{100} = \frac{9}{10} = 0.9 = 90\%$



3. Write the shaded amount as a fraction, decimal, and percentage.

Solution: $\frac{4}{100} = \frac{1}{25} = 0.04 = 4\%$



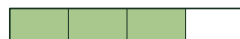
4. Write the shaded amount as a fraction, decimal, and percentage.

Solution: $\frac{1}{5} = 0.2 = 20\%$



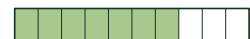
5. Write the shaded amount as a fraction, decimal, and percentage.

Solution: $\frac{3}{4} = 0.75 = 75\%$



6. Write the shaded amount as a fraction, decimal, and percentage.

Solution: $\frac{7}{10} = 0.7 = 70\%$



7. Write the shaded amount as a fraction, decimal, and percentage.

Solution: $\frac{1}{8} = 0.125 = 12.5\%$



8. Write the shaded amount as a fraction, decimal, and percentage.

Solution: $\frac{2}{5} = 0.4 = 40\%$



9. Write the shaded amount as a fraction, decimal, and percentage.

Solution: $\frac{3}{4} = 0.75 = 75\%$



Percentages, Fractions, and Decimals (continued)



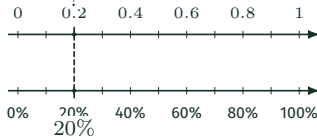
Solutions: find the missing label, then answer without a diagram.

Name _____

Date _____

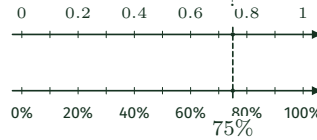
10. Find the missing label marked ? on the decimal (top) line.

Solution: 0.2



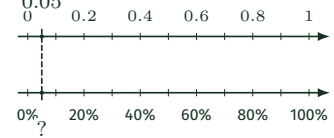
11. Find the missing label marked ? on the decimal (top) line.

Solution: 0.75



12. Find the missing label marked ? on the percentage (bottom) line.

Solution: 5%



13. Convert $\frac{3}{4}$ to a decimal and a percentage.

Solution: $0.75 = 75\%$

14. Convert 0.55 to a fraction (simplest form) and a percentage.

Solution: $\frac{11}{20} = 55\%$

15. Convert 65% to a decimal and a fraction (simplest form).

Solution: $0.65 = \frac{13}{20}$

16. Which is greater: $\frac{2}{5}$ or 38%?

Solution: $\frac{2}{5} = 40\% > 38\%$, so $\frac{2}{5}$

17. Order from smallest to largest: 0.42, $\frac{2}{5}$, 45%.

Solution: $\frac{2}{5}(40\%)$, 0.42(42%), 45%

18. A jug is $\frac{3}{10}$ full of water. Express this as a decimal and a percentage.

Solution: $0.3 = 30\%$