

7.7 Percent Equations and Proportions

Chapter 7: Percent

Name: _____

Date: _____

Class/Period: _____

Problem 7.127 24 is 60% of what number?

Problem 7.130 1.5% of what number is 12?

Problem 7.128 125% of what number is 75?

Problem 7.131 15% of what number is $\frac{9}{5}$?

Problem 7.129 720 is 80% of what number?

Problem 7.132 42 is 120% of what number?

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Problem 7.133 84 is 75% of what number?

Problem 7.136 If 12% of x is 15, find 8% of x .

Problem 7.134 If 80% of x is 56, find 35% of x .

Problem 7.137 Write an equation for "35% of x is 28."

Problem 7.135 If 125% of x is 90, find 50% of x .

Problem 7.138 Write a proportion for "18 is 24% of x ."

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Problem 7.139 Solve $0.65x = 39$.

Problem 7.142 Solve $\frac{27}{x} = \frac{45}{100}$.

Problem 7.140 Solve $1.4x = 91$.

Problem 7.143 Check whether $x = 48$ satisfies 75% of x is 36.

Problem 7.141 Solve $\frac{x}{64} = \frac{37.5}{100}$.

Problem 7.144 Explain why $80\%x = 30$ does not model "Jack lifts 30 fewer than Simone."

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Problem 7.145 Allison has 75% as much money as Nicholas and has \$84. How much does Nicholas have?

Problem 7.147 If 70% of x equals 35% of y , compare x and y without assigning numerical values.

Problem 7.146 A length is 160% of another length and exceeds it by 24 cm. Find both lengths.

Problem 7.148 Create a percent equation with a solution that is a nonterminating fraction. Solve it exactly.