

7.5 Estimating and Comparing Percents

Chapter 7: Percent

Name: _____

Date: _____

Class/Period: _____

Problem 7.83 Compare 10.5% of 80 with 8.

Problem 7.86 Compare 255% of 12 with 145% of 18.

Problem 7.84 Compare 67% of 90 with 60.

Problem 7.87 Compare 11% of 21 with 19% of 10.

Problem 7.85 Compare 33% of 45 with 45% of 21.

Problem 7.88 Compare 3% of 203 with 2% of 297.

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Problem 7.89 Compare 72% of 64 with 8% of 480.

Problem 7.92 Estimate 0.9% of 798.

Problem 7.90 Estimate 48% of 198.

Problem 7.93 Use directional bounds to prove that $23 < 39\%$ of $61 < 24$.

Problem 7.91 Estimate 203% of 49.

Problem 7.94 Use directional bounds to prove that $63 < 76\%$ of $83 < 64$.

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Chapter 7: Percent

Problem 7.95 What multiple of 5 lies between 15% of 59 and 20% of 59?

Problem 7.98 Estimate a 35% discount on \$119.

Problem 7.96 Find the smallest integer greater than 6% of 607.3.

Problem 7.99 Order 24% of 39, 78% of 26, 11% of 285, and 210% of 21.

Problem 7.97 Estimate a 22% tip on \$47.80.

Problem 7.100 Explain why 0.4% of 600 cannot equal 240.

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Problem 7.101 Choose the expression closest to 45% of 311 from 9% of 497, 57% of 157, 122% of 122, and 149% of 149. Justify by estimation.

Problem 7.103 A student estimates 49% of 205 as 100. Explain why the estimate is reasonable and determine whether it is high or low.

Problem 7.102 Find two different upper bounds and two different lower bounds for 37% of 82. Rank the quality of the bounds.

Problem 7.104 Create two percent expressions whose exact values are close but whose comparison can still be settled by careful bounds.