

Unit 2 Ratio and Proportion Applications Summative Assessment

7.RP.3, 7.G.1

Name _____

Date _____

In questions 1-5, read and solve each problem carefully.

- 1) The Woods went out to eat. If their bill was \$58.65 and they gave their server a 15% tip, how much did they pay altogether?

- 2) Ms. Acton bought a few clothing items that added up to \$205.60. If the sales tax is 6% and Ms. Acton had a coupon for 20% off, what is the discount and total of her purchase?

- 3) Michael purchased a new computer for \$1,150. If the sales tax is 7.5% and he received 15% off for being a student, what was the discount and total of his purchase?

- 4) A company charges a 15% restocking fee on returned merchandise. How much is the fee on a \$32 return?

- 5) While Vicky was at the market, she bought strawberries for \$3.50, carrots for \$2.25 and a bouquet of flowers for \$9.95. Vicky paid \$16.49 after tax. What is the percent of tax at the market? Round to the nearest whole percent.

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Use the table to complete the following question.

2008	2009	2010	2011
307	404	462	540

- 6) The table shows the number of visitors at an art show for the past several years. Find the percent increase from 2009 to 2011. Round your answer to the nearest whole percent.

What is the percent change? Is the change an increase or a decrease?

- 7) Shawn paid \$12 for a pair of pants that normally cost \$16.
- 8) Debbie paid \$32 for a pair of shoes that cost the store \$22.50.

In questions 9 and 10, find the amount of simple interest paid.

- 9) Sally bought a \$1400 certificate of deposit. At the end of 6 months, she received \$112 in simple interest. What annual rate of interest did the certificate pay?

- 10) Principle: \$300
Annual Rate: 5.5%
Time: 5 years

- a) \$16.50 c) \$82.50
b) \$92.09 d) \$3.30

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- 11) You are looking at a set of blueprints for a house. The scale of the blueprint is $\frac{1}{2}$ inch = $1\frac{1}{2}$ feet. Find the actual dimensions and area of each room of the house.

Room	Drawing Dimensions	Actual Dimensions	Area of the room
Kitchen	4in. x 5in.		
Living Room	5.5 in. x 6 in.		
Dining Room	4.5 in. x 3.5 in.		
Bedroom	3 $\frac{1}{3}$ in. x 4 in.		