

**Math 7 - Chapter 5 & 6 Semester Review Worksheet**

**Find each unit rate for problems 1-2. Round to the nearest hundredth if necessary.**

- 60 meters in 8 seconds
- \$3.99 for 3 pounds
- A grocery store sells 4 pounds of bananas for \$2.80 and 10 pounds of bananas for \$6.90. Is the cost of the soup proportional to the number sold? Explain.
- Jack uses a family recipe to make a fruit punch. If he plans on using  $2\frac{1}{3}$  cups of orange juice, about how many cups of cranberry juice does Jack need to use to keep the relationship between orange juice and cranberry juice proportional?

<b>Orange Juice (c)</b>	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$
<b>Cranberry Juice (c)</b>	$\frac{1}{8}$	$\frac{1}{4}$	$\frac{3}{8}$

- Solve:  $\frac{4}{9} = \frac{5}{x}$
- Solve:  $\frac{z}{12} = \frac{3}{8}$
- Three out of every five students have an iPad. If there are 1,500 students in a certain high school, how many do not have an iPad?

**Find each missing value for problems 8-11.**

- 24% of 30 is what number?
- 16 is 0.8% of what number?
- 18 is what percent of 90?
- 60% of what number is 36?

- Rosa has read 70% of the 30 books on her summer list. How many books has Rosa read?
- Find the percent of change from 62 miles to 46 miles. Round to the nearest whole percent.
- Carlos bought a video game for \$32.67. That same video game cost \$26.97 last year. What was the percent of change to the nearest whole percent?
- The regular price of a new iPhone is \$499 and the sale price is \$159. Find the percent of change to the nearest whole percent.
- Find the total cost of a \$8.95 breakfast with 20% tip.
- Find the sale price of a \$39 backpack with a 30% discount.
- Find the total cost of a \$579 tablet that is offered at a 40% discount, and the store charges a 9% tax.
- Find the total cost of a hair cut of \$48 including 8% tax and 20% tip.
- Find the simple interest if the loan is \$1,567. The bank charges 5% interest rate, and the loan must be paid in 9 months.
- Charlotte borrowed \$568 that she will pay back over the next 5 years. The bank charges 3.5% interest rate. Find the simple interest Charlotte will pay.
- Mr. Smith used his credit card to purchase a new lawn mower that cost \$375. His card has an interest rate of 15.5%. If he does not pay off his balance at the end of the month and has no other charges, how much money will he owe on his credit card at the end of the month?