

Multi-term Ratios, Percents and Interest - REVIEW WORKSHEET

1. Complete the chart. Simplify your ratios and fractions when you can.

	Ratio	Fraction	Percent	Decimal
a)				0.5
b)	4:5			
c)			67%	
d)		1/3		
e)				0.72
f)	4:6			

2. Finding the missing ratio terms.

a) $1:2:3 = 4:x:12$ b) $10:x:y = 150:30:45$ c) $x:2.2:6.6 = 4.4:y:8.8$

3. Solve the following. Round to one decimal place if necessary.

a) 8% of 32 b) 10% of 120 c) 44% of 88 d) 85% of 250
 e) 14% of 166 f) 67% of 67 f) 99% of 99 g) 98% of 89

4. Write as a decimal.

a) 78% b) 34% c) 45% d) 77% e) 102% f) 764%

5. Write as a percent.

a) $7.5/10$ b) $8/10$ c) $6/25$ d) $2/3$ e) $24/100$

6. Determine the missing number.

a) 10 is 10% of what number? b) 15 is 30% of what number?
 b) 100 is 15% of what number? d) 25 is $2/8$ of what number?

7. Determine the amount paid in interest.

a) $P = \$8000$ b) $P = \$2500$ c) $P = \$455$
 $r = 12\%$ $r = 8\%$ $r = 4.5\%$
 $t = 6$ months $t = 3$ months $t = 90$ days

8. Determine the interest rate (%)

a) $I = \$150$ b) $I = \$85$
 $P = \$1050$ $P = \$2000$
 $t = 8$ months $t = 300$ days

9. Percent word problems. Solve and show your work.

a) A bracelet is regular \$105.99, but is now on sale for 25% off. What is the sale price?

b) A man wins \$1 000 000 in a lottery. He spends all of it except for \$20 000. What percent did he save?

c) If 90% of Gatorade is water, how much water is there in 55L of Gatorade?

d) A pro basketball player successfully shot 320 out of 436 baskets in a season. What percent of the shots were missed?

e) Jenny buys a new kayak for the summer. The regular price was \$1599.99, but it is now on sale for \$1299.99. How much money is she saving? How much (percent) has this been reduced?

f) Nate buys a new PS4 video game system. The system costs \$600. Games cost \$80 each. He pays 13% tax on the system and on each game. He has \$850 in total to spend. After Nate pays for the system, how many games is Nate able to buy?

g) Sally works part-time at a clothing store. She earns \$80 per week plus 6% of the value of her weekly sales. This week Sally earns \$119. What is the total value of her sales this week.

h) Charlie belongs to a swimming team, and he wins 15 races in a season. He won 35% of all the races for the whole team. How many races did the team win in total?

i) Antonia belongs to iTunes and buys albums for \$11.44 each before tax. Her first bunch of albums costs \$90.49 including the 13% tax. How many albums did she buy?

j) Mr. D. Shrute is a salesman. His total pay includes a base salary and a percent of his sales. The following table shows his total pay for three different sale levels. Determine Mr. Shrute's total pay when his sales are \$47 000.

Sales (\$)	Total pay (\$)
15 000	1 700
17 500	1 825
28 000	2 350