Express each phrase as a rate and unit rate.
(Round your answer to the nearest hundredth.)

	Rate	Unit Rate
9) 6 calculators cost $180.00		
10) 7 pencils for 16 dollars		
11) 7 batteries cost 17 dollars		
12) 11 inches of snow in 4 hours		

Fraction Form OR Decimal Form

Instructions: Write the fraction form and decimal form of each percent.

Example: 16% → Fraction Form $\frac{16}{100}$ → Decimal Form 0.16

1) 28% — ____ ____
2) 41% — ____ ____
3) 54% — ____ ____
4) 2% — ____ ____
5) 4% — ____ ____
6) 95% — ____ ____
7) 80% — ____ ____
8) 164% — ____ ____
9) 73% — ____ ____
10) 233% — ____ ____

Statistical Questions

a. How many days are in March?

b. How old is your dog?

c. On average, how old are the dogs that live on this street?

d. What proportion of the students at your school like watermelons?

e. Do you like watermelons?

f. How many bricks are in this wall?

g. What was the temperature at noon today at City Hall?

L1 - Solving Percent Problems using Proportions Worksheet

Name: _____
Date: _____ Section: ____

REMEMBER:

"OF" number is always behind the word of

"%" number is the number with the percent sign

"IS" number will be in front of the word is or behind the word is

PROPORTION

$$\frac{is}{of} = \frac{\%}{100}$$

Write a proportion and then solve it for each problem. Be sure to show all the steps for solving a proportion. If necessary, round answers to the nearest tenth.

1. What number is 70% of 45? 1. _____

2. 23% of 75 is what number? 2. _____

3. 45 is what percent of 90? 3. _____

4. What percent of 77 is 7? 4. _____

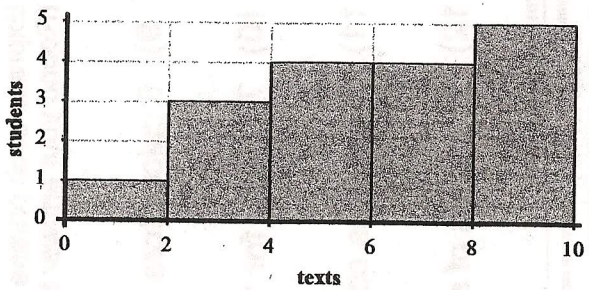
5. 15 is 25% of what number? 5. _____

6. 18% of what number is 43? 6. _____

Interpreting Histograms

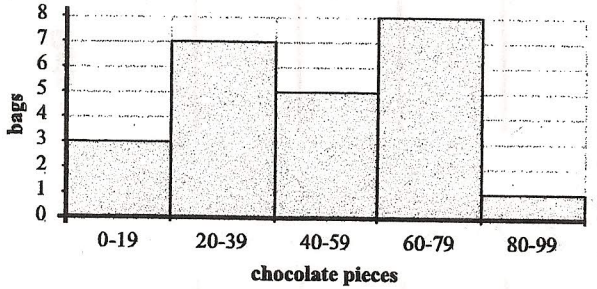
Name:

The histogram below show the number of texts students sent each day.



1) Most students sent between ___ and ___ texts.
2) How many students sent between 8 and 10 texts?
3) How many students are represented in this histogram?
4) If a student sent 2 texts which bar would they be added to?

The histogram below show the quantity of chocolate pieces per bag of trail mix.



5) Most bags had between ___ and ___ pieces of chocolate.
6) How many bags had between 60 and 79 chocolate pieces?
7) How many bags of trail mix are represented in this histogram?
8) If a bag had 59 pieces of chocolate in it, which bar would it be added to?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

Work Space

35, 56, 34, 44, 52, 12, 34, 45

Mean = _____ Median = _____

Mode = _____ Range = _____

24, 34, 32, 16, 45, 38, 28

Mean = _____ Median = _____

Mode = _____ Range = _____

Use the ratio table given to solve each problem.

1. **BAKING** A recipe for 1 apple pie calls for 6 cups of sliced apples. How many cups of sliced apples are needed to make 4 apple pies?

Number of Pies	1			4
Cups of Sliced Apples	6			■

2. **BASEBALL CARDS** Justin bought 40 packs of baseball cards for a discounted price of $64. If he sells 10 packs of baseball cards to a friend at cost, how much should he charge?

Number of Baseball Card Packs	10			40
Cost in Dollars	■			64

3. **SOUP** A recipe that yields 12 cups of soup calls for 28 ounces of beef broth. How many ounces of beef broth do you need to make 18 cups of the soup?

Number of Cups		12	18
Ounces of Beef Broth		28	■

4. **ANIMALS** At a dog shelter, a 24-pound bag of dog food will feed 36 dogs a day. How many dogs would you expect to feed with a 16-pound bag of dog food?

Pounds of Dog Food	16	24	
Number of Dogs Fed	■	36	

5. **AUTOMOBILES** Mr. Fink's economy car can travel 420 miles on a 12-gallon tank of gas. Determine how many miles he can travel on 8 gallons.

Miles	420		■
Gallons	12		8