

Name _____

Summer Math for New 7th Grade Students

Mathematical Reasoning

- 1.) If a jeweler buys one gram of gold for \$60.25 and five grams of platinum for \$287.50, which costs more, gold or platinum? Give the difference in price per gram between gold and platinum.
- 2.) Izzy is 12 years old. She is 6 years younger than her brother Ozzy. Write and solve a subtraction equation to show how old Ozzy is.
- 3.) Robert sold 24 candy bars. This is 12 less than Paul sold. Write and solve an algebraic equation to show how many candy bars Paul sold.
- 4.) Charlene can buy 5 yards of cloth for \$22. At this unit rate, what is the cost for 2.5 yards? 42.5 yards?
- 5.) If 15% of the 240 marbles are red, how many are not red? (Write the actual number, not the percent)
- 6.) Scott downloaded 25 songs in 10 minutes. On average Scott downloaded _____ songs per minute.
- 7.) 21 birds shared 7 bird feeders. Assuming the same number of birds shared each feeder, how many birds shared one feeder? Write the ratio of birds to feeders.
- 8.) Taylor is dividing a bag of jellybeans into equal portions for 6 people. If each person gets 30 jellybeans, how many did Taylor start with? Write and solve a division equation to find the answer.
- 9.) Sally can run 5km in 25 minutes. At this rate, how far will she run in one hour and forty minutes?
- 10.) If 24% of the sixth grade is in Mr. White's class and he has 30 students, how many students does he have in all?
- 11.) Francine buys a video game at 40% off. If she pays \$24, what was the original price?
- 12.) Two out of the eight kittens in a litter have white feet. What percentage of the litter has white feet?

Computation

1.) $4.6 \times 3.2 =$

2.) $955 \div 25 =$

3.) Evaluate $a(5a-b)$ when $a=2$ and $b=5$

4.) $18.9 - 9.47 =$

5.) $5.3 \times 0.6 =$

6.) Evaluate 0.5^2

7.) Evaluate $(5+b)^2$ when $b=5$

8.) $(8 \times 5) \div 10$

9.) Write $8 \times 8 \times 8 \times 8 \times 8 \times 8 \times 8$ using exponential notation.

10.) Simplify $3(3a-2)$

11.) Simplify $6(3a+7a-4)$

12.) $23.849 + 66.47 =$

13.) $3,480 \div 40 =$

14.) Find the mean in the following data set:

21, 4, 56, 22, 43, 2, 13