

Name: _____ Date: _____

Proportional Reasoning

Directions: In each situation below, write **YES** on the line if the situation makes sense; write **NO** if it does not. Also for each explain your reasoning for your answer.

1. A student studied for 1 hour and earned a 90% on her test. If she had studied for 2 hours, she would have scored a 180% on her test.

Make sense? _____

Explain? _____

2. If Michelle's cell phone plan costs \$. 40 for 1 minute, then it costs \$1.20 for 3 minutes.

Make sense? _____

Explain? _____

3. If a 9-foot tree casts a 15 foot shadow then a 21-foot building casts a 35 foot shadow.

Make sense? _____

Explain? _____

4. There are 2.54 centimeters to an inch. Therefore a piece of paper that is 11 centimeters long is 27.5 inches.

Make sense? _____

Explain? _____

5. Fifteen pieces of candy cost \$2.80, therefore 45 pieces of the same candy will be \$8.40.

Make sense? _____

Explain? _____

6. If it takes Brandon three years to complete middle school, then it will take Mike, Charles, and Carl nine years to complete middle school.

Make sense? _____

Explain? _____

7. John can run 2 miles in 15 minutes; therefore, he can run 8 miles in 1 hour.

Make sense? _____

Explain? _____

8. If Rae types 20 characters for her text message in 15 seconds, then she can type 80 characters in 60 seconds.

Make sense? _____

Explain? _____

9. If 5 notebooks cost \$2, 10 rulers cost \$4.

Make sense? _____

Explain? _____

10. If the height of a model car is 3 inches and the length of the model is 5 inches, then the actual car could have a height of 60 inches and a length of 100 inches.

Make sense? _____

Explain? _____

11. Look at all of the situations where you answered "YES". They all made sense because they have something mathematical in common. What do you think that is?
