Willard Middle School – Mathematics

PRETEST – Power Standard 7:7

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A TV with a retail price of $775 is currently on sale for $499. What is the percent of discount for the TV? Round to the nearest percent.
2. 35%
3. 36%
4. 64%
5. 65%
6. Find the unit rate of $156 for 3 pairs of jeans.
7. Choose the better unit price: 3 pounds of candy for $12.95 or 5 pounds of candy for $21.45.
8. Does the following chart show a constant rate of change? Explain your reasoning.

|  |  |
| --- | --- |
| Time (in hours) | Distance (in miles) |
| 2 | 180 |
| 4 | 240 |
| 6 | 320 |
| 8 | 380 |

1. What is 86% of 325? Use the percent proportion to find your answer.
2. Are and equivalent? Explain your reasoning.
3. It takes 48 chicken nuggets to feed Mr. Rice’s class of 20 students. How many chicken nuggets are needed to feed 30 students? Use a proportion to find your answer.
4. Ryan made a scale drawing of the local park using a scale of 2 cm = 3m. He measured the jungle gym and found it to be 60 m. What was the jungle gym’s length in his drawing?
5. What will happen to the total perimeter when a rectangle is dilated by a factor 4?
6. It will be 4 times the original perimeter.
7. It will be 4 more than the original perimeter
8. It will not change.
9. It will be of the original perimeter.