$$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 $\frac{3}{5} $and $\frac{27}{45} $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 $\frac{1}{4} $of the original perimeter.