Willard Middle School – Mathematics

FORMATIVE TEST – Power Standard 7:7

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

1. Robert works at a local restaurant where he receives an employee discount. If the menu price for a pizza is $16.99 and Robert only has to pay $14.44, how much of a discount does he receive?
2. 2.55%
3. 15%
4. 35%
5. 85%
6. Find the unit rate of 115 miles in 2 hours
7. Choose the better unit price: A 32-ounce bottle of juice for $2.50 or a 48-ounce bottle of juice for $3.84.
8. Does the following chart show a constant rate of change? Explain your reasoning.

|  |  |
| --- | --- |
| Hours worked | Money made |
| 1 | $16 |
| 2 | $32 |
| 3 | $48 |
| 4 | $64 |

1. 13 is what percent of 50? Use the percent proportion to find you answer.
2. Are and equivalent? Explain your reasoning.
3. John is able to read 40 pages in 50 minutes. How many pages should he be able to read in 80 minutes? Use a proportion to find your answer.
4. The carpenter wants to make a model of his dresser for Katie’s dollhouse furniture. The scale is 3 in: 1 ft. The height of the dresser in the dollhouse is 10 in. What is the height of the carpenter's dresser?
5. What will happen to the total perimeter when a rectangle is dilated by a factor of ?
6. It will not change.
7. It will be more than the original perimeter.
8. It will be half of the original perimeter.
9. It will be twice the original perimeter.