

Math 6 - Unit 2: Ratios, Rates and Proportions Name: _____

Unit 2 Interim Assessment Study Guide

Class Period: 1 2 3 4 Date: _____

- 1) Alanna is buying packs of pencils to give to Mrs. Katz. The table below shows the relationship between packs and pencils.

Number of Packs	Number of Pencils
1	12
2	24
5	60
8	?

How many pencils are there in 12 packs?

Answer: _____

- 2) A train travels 492 miles in 6 hours. At this rate, how many miles will the train travel in 14 hours?

Answer: _____

- 3) An auto parts factory has 4 machines that make the same spark plug. The rate of production for each machine is shown in the table below.

Machine	# of Spark Plugs Made	Time (Hours)
W	115	5
X	144	6
Y	154	7
Z	180	8

Based on the data given, which machine works at the fastest rate?

Answer: _____

- 4) Zara is having a bake sale for the local animal shelter. Her recipe for cookies uses 4 cups of flour to make 60 cookies. How many cups of flour will Alice need to make 360 cookies?

Answer: _____

5) Mrs. Parker paid \$12.72 for 4 gallons of apple juice. At this rate, how much would she pay for 9 gallons of orange juice?

Answer: _____

6) The Chick-fil-A down the street can serve 208 cars over a 4-hour period. What is the average number of cars that can be served in 30 minutes?

Answer: _____

7) A waiter receives a tip of \$3.24. If this tip represents 18% of the price of the meal, what is the price of the meal?

Answer: _____

8) On her last test Grace answered 80% of the questions correctly. If there were 40 questions on the test, how many did Grace answer correctly?

Answer: _____

9) A recipe for root beer floats requires 3.5 gallons of root beer. How many quarts of root beer are required for the recipe? **(1 gallon = 4 quarts)**

Answer: _____

10) Mrs. Katz is 62 inches tall. What is her height in centimeters? **(2.54 cm = 1 inch)**

Answer: _____

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ANSWER KEY

Class Period: 1 2 3 4 Date: _____

- 1) Alanna is buying packs of pencils to give to Mrs. Katz. The table below shows the relationship between packs and pencils.

Number of Packs	Number of Pencils
1	12
2	24
5	60
8	?

How many pencils are there in 12 packs?

Answer: **96**

- 2) A train travels 492 miles in 6 hours. At this rate, how many miles will the train travel in 14 hours?

Answer: **1148 mph**

- 3) An auto parts factory has 4 machines that make the same spark plug. The rate of production for each machine is shown in the table below.

Machine	# of Spark Plugs Made	Time (Hours)
W	115	5
X	144	6
Y	154	7
Z	180	8

Based on the data given, which machine works at the fastest rate?

Answer: **Machine X**

- 4) Zara is having a bake sale for the local animal shelter. Her recipe for cookies uses 4 cups of flour to make 60 cookies. How many cups of flour will Alice need to make 360 cookies?

Answer: **24 cups**

5) Mrs. Parker paid \$12.72 for 4 gallons of apple juice. At this rate, how much would she pay for 9 gallons of orange juice?

Answer: **\$28.62**

6) The Chick-fil-A down the street can serve 208 cars over a 4-hour period. What is the average number of cars that can be served in 30 minutes?

Answer: **26 cars**

7) A waiter receives a tip of \$3.24. If this tip represents 18% of the price of the meal, what is the price of the meal?

Answer: **\$18**

8) On her last test Grace answered 80% of the questions correctly. If there were 40 questions on the test, how many did Grace answer correctly?

Answer: **32 questions**

9) A recipe for root beer floats requires 3.5 gallons of root beer. How many quarts of root beer are required for the recipe? **(1 gallon = 4 quarts)**

Answer: **14 quarts**

10) Mrs. Katz is 62 inches tall. What is her height in centimeters? **(2.54 cm = 1 inch)**

Answer: **157.48 cm**