

PS 89 Dr Lydia T Wright School Of Excellence

MATH GRADE 7: MAE7G 1 MATH GRADE 7

## GRADE 7 MATH WORKOUT SET 6

Instructor: ALFRED KANYURU

Name: \_\_\_\_\_

Score:  / 100

Question 1

/1

A recycling plant processes an average of  $\frac{1}{3}$  ton of glass each minute. At approximately what rate does the recycling plant process glass, in tons per day?

- 20
- 180
- 480
- 4,320

Question 2

/1

Ms. Hernandez has \$100 to spend on parking and admission to the zoo. The parking will cost \$7, and the admission tickets will cost \$15.50 per person, including tax. Write and solve an equation that can be used to determine the number of people that she can bring to the zoo, including herself.

**SHOW YOUR WORK**

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Name: \_\_\_\_\_

Question 3

/1

Which is the sum of  $(2x - 5y)$  and  $(x + y)$ ?

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Question 4

/1

Leo bought a used car for  $x$  dollars. One year later the value of the car was  $0.88x$ . Which expression is another way to describe the change in the value of the car?

- 0.12% decrease
- 0.88% decrease
- 12% decrease
- 88% decrease

Name: \_\_\_\_\_

Question 5

 /1

What is the exact decimal equivalent of  $\frac{7}{12}$ ?

- 0.583
- 0.583
- 1.714
- 1.714

Question 6

 /1

On average, Shawnte drinks  $\frac{1}{2}$  of a 4-ounce glass of water in  $\frac{2}{3}$  hour. How much water does she drink in an hour?

- 0.75 ounce
- 2 ounces
- 4.5 ounces
- 9 ounces

Question 7

 /1

Which situation results in a final value of zero?

- the overall change in temperature when the temperature goes from  $-10^{\circ}\text{F}$  to  $10^{\circ}\text{F}$
- the total profit made when a person buys an item for \$2.25 and then sells the item for \$2.25
- the overall change in altitude of a hot air balloon after rising 21 kilometers from sea level
- the total distance a person travels when he bikes 3.1 miles to school and then bikes 3.1 miles back home

Name: \_\_\_\_\_

Question 8

/1

A car travels  $30\frac{1}{5}$  miles in  $\frac{2}{3}$  of an hour. What is the average speed, in miles per hour, of the car?

*Show your work.*

\_\_\_\_\_

*Answer* \_\_\_\_\_ miles per hour

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Name: \_\_\_\_\_

Question 9

/1

The scale of a model train is 1 inch to 13.5 feet. One of the cars of the model train is 5 inches long. What is the length, in feet, of the actual train car?

- 67.5
- 32.4
- 14.5
- 2.7

Question 10

/1

Sally has a discount card that reduces the price of her grocery bill in a certain grocery store by 5%. If  $c$  represents the cost of Sally's groceries, which expression represents

Sally's grocery bill?

- $0.05c$
- $0.95c$
- $c - 0.05$
- $c + 0.95$