

PS 89 Dr Lydia T Wright School Of Excellence

MATH GRADE 8: MAE8G 1 MATH GRADE 8

## MAY WEEK 3 MATH WORKOUT

Instructors: ALFRED KANYURU, NATASHA HENDRICKS, LEEQUISHA VOLIOUS

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

Score:  / 100

Question 1

/1

Simplify the expression using exponents.

$$9^3 \cdot 9^5$$

$81^8$

$9^{15}$

$9^8$

$81^{15}$

Question 2

/1

Using exponents, what is the simplified form of the expression  $(2^4)^7$

$14^{28}$

$2^3$

$2^{28}$

$2^{11}$

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

Question 3

/1

How do you write the standard number 0.00095 in scientific notation?

$9.5 \times 10^{-3}$

$9.5 \times 10^{-5}$

$9.5 \times 10^{-6}$

$9.5 \times 10^{-4}$

Question 4

/1

This is between which two integers?

$$\sqrt{183}$$

12 and 13

45 and 46

13 and 14

91 and 92

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

Question 5

/1

How many times larger is  $5 \times 10^7$  than  $5 \times 10^2$ ?

$1 \times 10^9$

$1 \times 10^4$

$1 \times 10^6$

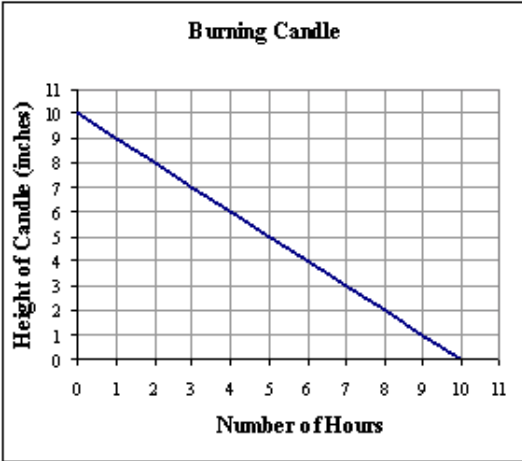
$1 \times 10^5$

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

Question 6

/1

The graph represents the height of a burning candle. What is the meaning of the y-intercept?



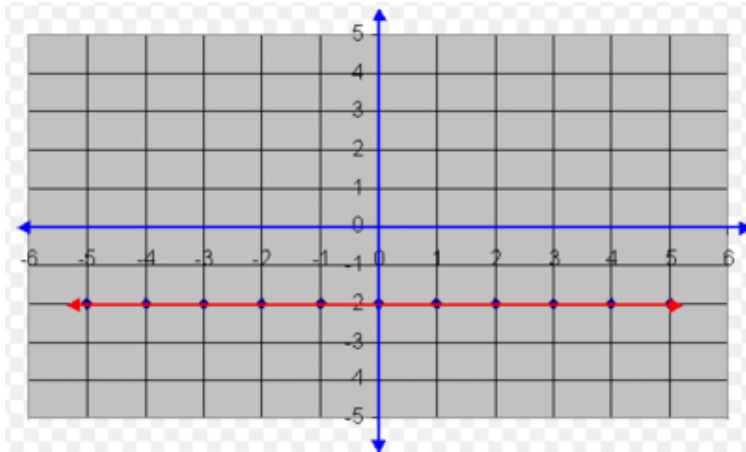
- the time it takes to burn the entire candle
- the change in the height of the candle each hour
- the rate at which the candle is losing height
- the original height of the candle

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

Question 7

/1

What is the equation of this line?



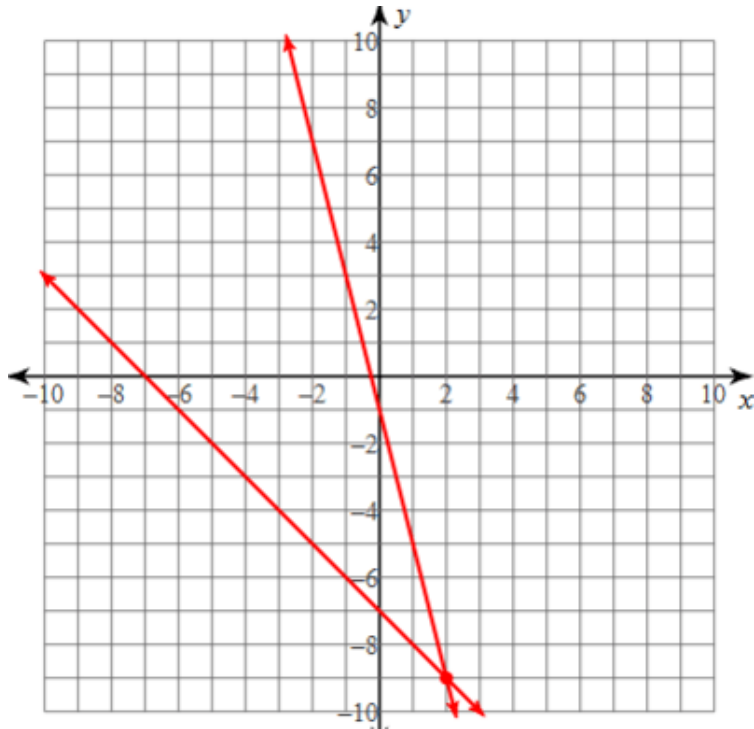
- $x = -2$
- $x = 2$
- $y = -2x$
- $y = -2$

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

Question 8

/1

Where do these two lines meet?



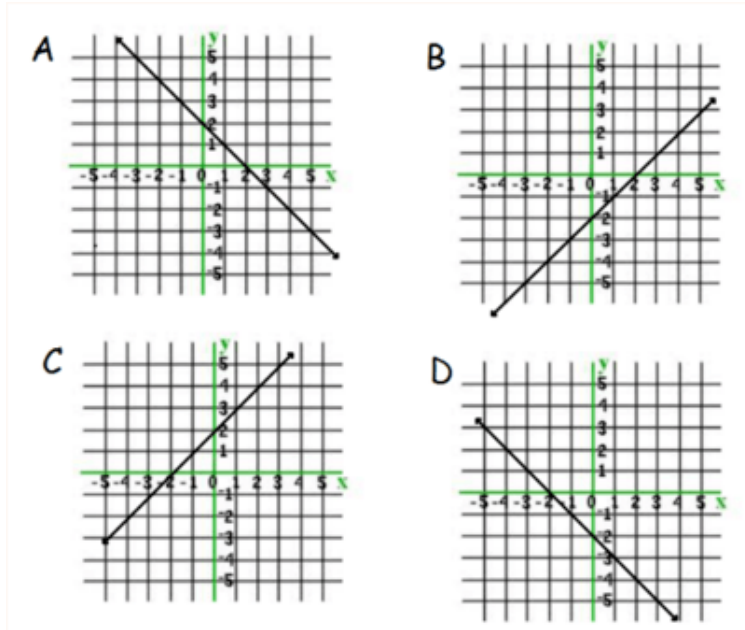
- (2, -9)
- (-9, 2)
- No solution
- (2, 9)

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

Question 9

/1

Which is the graph of  $y = -x + 1$ ?



- A
- B
- C
- D



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

Question 10

/1

$$(5^3x^2y^4)^0$$

5xy

0

1

5