

Algebra 1 Quick quiz 10182022

1

A store is advertising notebook paper in a back-to-school sale as “Buy one, get one free.” The store posted the table below, but one value is missing.

Number of Packages	2	4	6	8	10
Total Cost	\$0.50	\$1.00	\$1.50	\$2.00	?

What value will correctly complete the pattern in the table?

- A \$2.00
- B \$2.25
- C \$2.50
- D \$3.00

2.

In the equation $y = 2x$, what is the value of y when $x = 3$?

- A 5
- B 6
- C 7
- D 9

3.

Which expression BEST approximates $6.81 \times 7.82 \times 8.49$?

- A $6 \times 7 \times 8$
- B $6 \times 7 \times 9$
- C $7 \times 8 \times 8$
- $7 \times 8 \times 9$

4.

Which expression is equivalent to $(2x^3)(x^5)$?

- A x^{10}
- B $2x^8$
- C $2x^{15}$
- D $3x^8$

5.

Which expression correctly uses the distributive property to rewrite the expression $7(y + 5)$?

- A $5 + 7y$
- B $5(7 + y)$
- C $7y + 35$
- D $12(7 + y)$

6.

Suzy is competing in a long-distance bicycle race. In the first 6 hours, she completed 132 miles of the race. If she plans to ride 7 hours per day, how many days will it take for her to complete the 616-mile race at the same rate?

- A 2
- B 4
- C 6
- D 8

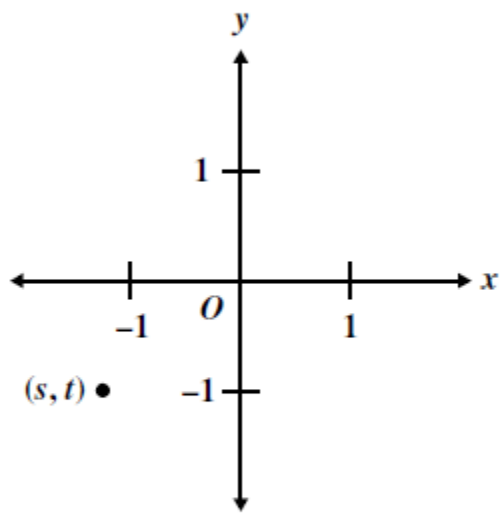
7.

What is d if $94 = 2d + 80$?

- A 2
- B 4
- C 7
- D 8

8.

If (s, t) denotes the coordinates of the point shown in the graph below, which of the following must be true?



- A $s > 0$ and $t > 0$
- B $s > 0$ and $t < 0$
- C $s < 0$ and $t > 0$
- D $s < 0$ and $t < 0$

9.

What is the equation of a line that has a slope of $\frac{3}{4}$ and an x -intercept of 0?

A $y = 0$

B $y = \frac{3}{4}$

C $y = \frac{3}{4}x$

D $y = x + \frac{3}{4}$

10.

What does $8 \div 4 \times 2 + 2$ equal?

A $\frac{1}{2}$

B 3

C 6

D 8

BONUS

11.

The quadratic function $y = k(x)$ is graphed in the xy -coordinate plane and has its vertex at $(-2, 0)$. Which could be the equation of k ?

A. $k(x) = (x - 4)^2$

B. $k(x) = (x - 2)^2$

C. $k(x) = (x + 2)^2$

D. $k(x) = (x + 4)^2$