

TAKE A QUIZ 2

Name: _____

Score: / 100

Question 1

Altitude above sea level is given in positive values and below sea level is given in negative values. Which situation describes a hiker in Death Valley stopping at an altitude of 0 feet?

- The hiker starts at -10 feet then increases altitude by 10 feet.
- The hiker starts at -10 feet then decreases altitude by 10 feet.
- The hiker starts at 10 feet then increases altitude by 10 feet.
- The hiker starts at 0 feet then decreases altitude by 10 feet.

Question 2

A cashier who makes \$7.50 per hour gets a raise of $\frac{1}{10}$ his current hourly pay. How much will he make per hour after the raise?

- \$0.75
- \$7.60
- \$8.25
- \$10.00

Question 3

/1

Linda made a scale drawing of her classroom for her math project. She used a scale of 1 cm = 2.5 ft. If the length of her classroom on the drawing measured 20 cm, what is the actual length of her classroom?

- 50 ft.
- 1,250 ft.
- 500 ft.
- 43 ft.

Question 4

/1

As an event becomes *less* likely to occur, what happens to its probability?

- It is zero.
- It becomes closer to zero
- It becomes closer to one.
- It is one.

Question 5

How else can the decimal $0.42424242\dots$ be expressed?

Question 6

Nora has $2x$ dollars. Maura has six more than twice the amount of dollars Nora has. Mia has half the number of dollars Maura has. How many dollars does Mia have?

- $2x + 3$
- $3x + 2$
- $4x + 6$
- $8x + 12$

Question 7

Simplify the following expression $2(x + 16) + 3(2x + 5)$

- $7x + 21$
- $5 + 3x + 21$
- $8x + 37$
- $8x + 47$

Question 8

What is the result when $8x + 3$ is subtracted from $-2x + 5$?

- $-10x + 2$
- $10x - 2$
- $6x + 8$
- $-10x + 8$

Question 9

Which expression is the same value as -12 ?

- $7 + 5$
- $-7 + 5$
- $7 + -5$
- $-7 + (-5)$

Question 10

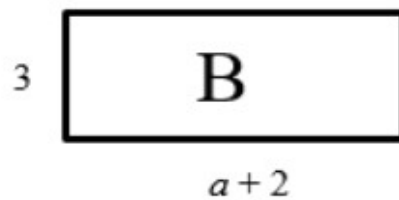
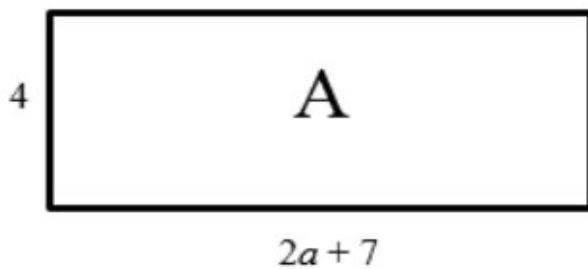
Simplify the following expression.

$$3(x + 2) - 5x$$

- $6 - 2x$
- $8x + 2$
- $-2x + 2$
- $2x + 6$

Question 11

How much larger is the area of rectangle A than the area of rectangle B ?



- $5a + 22$
- $2a + 12$
- $a + 5$
- $11a + 34$

Question 12

Which situation can be modeled using the expression $0.75d$?

The sale price of a shirt that originally costs d dollars and is on sale for 75% off

The cost of an item, d , including 75 cents tax

The number of rainy days out of a total of d days where it rains on 75% of them

The price of a sweater, d , that is marked up 750%

Question 13

The expression $6\left(\frac{3}{5}x - 2.3\right)$ is equivalent to

$1.3x$

$-10.2x$

$3.6x - 2.3$

$3.6x - 13.8$

Question 14

Malik purchased the same brand of eggs at the same store on different occasions. The information is listed in the table below.

Eggs by the dozen	Total Cost
1.5	\$5.55
2.5	\$9.25
4	\$14.80

What is the price per dozen of eggs?

\$2.70

\$3.00

\$3.35

\$3.70

Question 15

Which statement describes the decimal equivalent of $\frac{3}{8}$?

It is a decimal with a repeating digit of 4.

It is a decimal with repeating digits of 38.

It is a decimal that terminates after 2 decimal places.

It is a decimal that terminates after 3 decimal places.

Question 16

Simplify: $7(a + 4b) - 3c$

$7a + 28b - 3c$

$7a + 11b - 3c$

$32abc$

$11ab - 3c$

Question 17



Which representation shows a proportional relationship between x and y ?

1

x	y
2	5
4	10
6	15
10	25

x	y
2	4
4	8
8	20
16	44

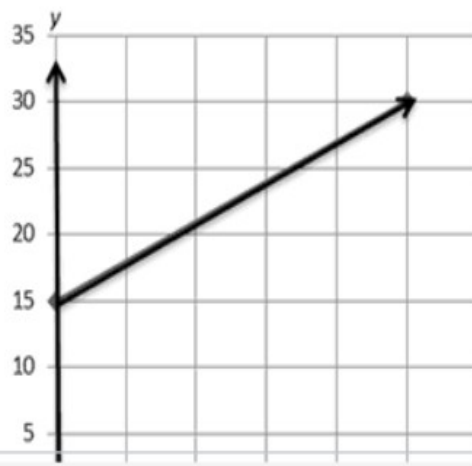
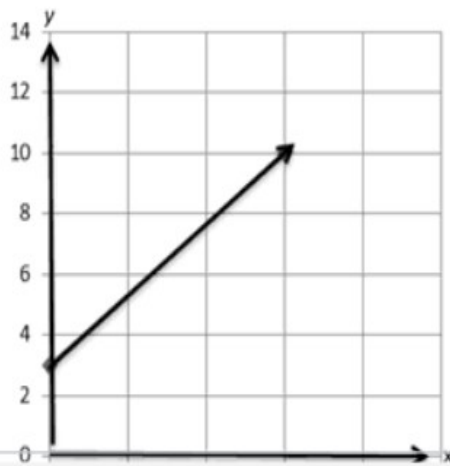
- 1
- 2
- 3
- 4

1.

2. 2

3.

4.



Question 18

Which expression is equivalent to $(-18) - 64n$?

- $-2(9 - 32n)$
- $2(9 - 32n)$
- $-2(9 + 32n)$
- $2(9 + 32n)$

Question 19

Which expression is equivalent to $n + n - 0.18n$?

1.18n

1.82n

$n - 0.18$

$2n - 0.82$

Question 20

Which expression is equivalent to $-\frac{1}{3}(6x + 15) - 3$?

$-2x + 12$

$-2x + 2$

$-2x - 12$

$-2x - 8$