

1

Christine sells real estate. She is paid 4% of the sale price of every house she sells. What is Christine paid for selling a house at the sale price of \$300,000?

- A) \$400
- B) \$1,200
- C) \$4,000
- D) \$12,000

2

For what value(s) of x is (x + 4)(x - 5) = 0 true?

- A) -4 and 5
- B) -4 only
- C) 4 and -5
- D) 4 only

3

Which of the following inequalities orders the numbers 0.2, 0.01, and $\frac{1}{7}$ from least to greatest?

- A) $0.2 < 0.01 < \frac{1}{7}$
- B) $0.01 < 0.2 < \frac{1}{7}$
- C) $0.01 < \frac{1}{7} < 0.2$
- D) $\frac{1}{7} < 0.01 < 0.2$

4

Given that 4x + 1 = 5, what is the value of $(x + 1)^2$

- A) 1
- B) 2
- C) 4
- D) 16



5

What vector is the result of adding the vectors < -1, 2>, <-2, -3>, and < 4, -2>?

- A) < 8, 12 >
- B) < -1, 3 >
- C) < 3, -3 >
- D) < 1, -3 >

6

What value of *x* makes $\frac{4}{5}x + 3 = 19$

- A) $\frac{88}{5}$
- B) $\frac{64}{5}$
- C) 16
- D) 20

7

In Mountainview, the daily low temperatures, in degrees Fahrenheit (° F), during the first week of January were 3, -12, 15, 30, 9, -2, and 6. To the nearest degree Fahrenheit, what was the mean daily low temperature for the week?

- A) 7°F
- B) 9°*F*
- C) 16°F
- D) 19°F

8

Assume that x, y, and z are real numbers. If x>z and (x+y)>(y+z), then what is true of z?

- A) z must have the same sign as y
- B) z must be positive
- C) z must be positive
- D) *z* can be any real number



Q

What is the slope of the line given by the equation 3x+5y=-4

- A) $\frac{3}{5}$
- B) $\frac{5}{3}$
- C) $\frac{-3}{5}$
- D) $\frac{-5}{3}$

10

One leg of a right triangle is 5 meters long and the other leg is 10 meters long. How many meters long is the hypotenuse?

- A) $5\sqrt{5}$
- B) $\sqrt{50}$
- C) $10\sqrt{5}$
- D) $5\sqrt{3}$

Answer Key

Calculator Off		:	Calculator On	
1	D	:	5	D
2	A	:	6	D
3	C	<u>:</u>	7	В
4	C	•	8	D
		:	9	C
		:	10	A