

7th Math #1

Subject: Mathematics

State: Ohio

Student Name:		
Teacher Name:		
School Nama		

- $(A)\,\frac{1}{16}$
- $(B)\,\frac{1}{9}$
- (C) 9
- (D) 16

2 In the given equation, a, b, and c are nonzero rational numbers.

 $a \cdot b = c$

Given this equation, write one number into each box below to complete four true equations.

Choose from the following numbers:

c

-b

$$\frac{\Box}{-b} = a$$

$$\frac{\Box}{\Box} = -a$$

3 What is the value of the expression below?

$$-\frac{2}{3} \cdot \frac{5}{-6}$$

- $(A) \frac{4}{5}$
- (B) $-\frac{5}{9}$
- (C) $\frac{5}{9}$
- $(D)\frac{4}{5}$

- (A) 0.151
- (B) 0.112
- (C) 0.108
- (D) 0.019

5 Select all values equivalent to $-\frac{10}{7}$.

- $(A) \frac{-10}{-7}$
- (B) $-3\frac{1}{7}$
- (C) $1\frac{3}{7}$
- (D) $-\frac{-10}{-7}$
- (E) $-1\frac{3}{7}$

6 Which of the following is equivalent to the expression below?

$$(3)(4)(-\frac{3}{4})$$

(A)
$$-12(-\frac{3}{4})$$

(B)
$$-12(\frac{3}{4})$$

(C)
$$-12 - \frac{3}{4}$$

(D)
$$-12 + \frac{3}{4}$$

7 Which of the following expressions has a value of 1.25?

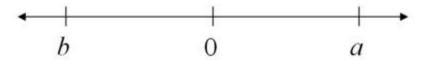
- (A) (2.5)(-0.5)
- (B) (2.5)(0.5)
- (C)(-2.5)(-0.5)
- (D) -(-2.5)(-0.5)

8 Ocean water freezes at about $-2\frac{1}{2}$ °C. Fresh water freezes at 0°C. Antifreeze, a liquid used to cool most car engines, freezes at -64°C.

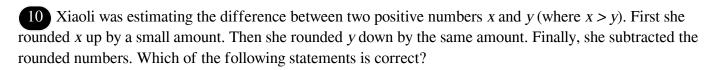
Imagine that the temperature is exactly at the freezing point for ocean water. How many degrees must the temperature drop for antifreeze to turn to ice?

- (A) 61.5°C
- (B) 62.5°C
- (C) 64°C
- (D) 66.5°C

9 On the number line below, the numbers a and b are the same distance from 0. What is a + b?

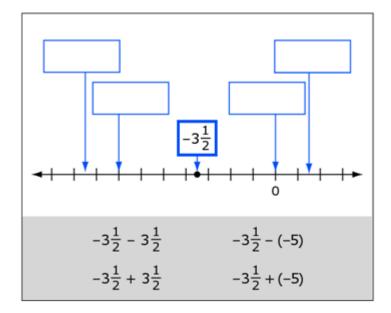


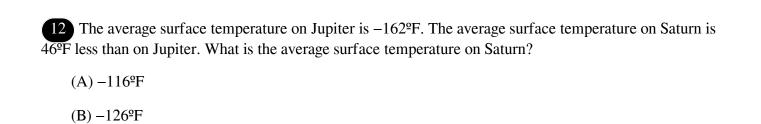
- (A) 2a
- (B) 2b
- (C) 0
- (D) The answer cannot be found from the information given.



- (A) Her estimate is larger than x y.
- (B) Her estimate is smaller than x y.
- (C) Her estimate equals x y.
- (D) Her estimate equals y x.
- (E) Her estimate is 0.
- (F) There is not enough information to compare x y with her estimate.

Each of the four expressions belongs in one of the boxes. Rewrite each expression in the box that shows its correct location on the number line.





(D) -218ºF

 $(C) -208^{\circ}F$

13 The temperature in a city increased from -12°F at dawn to 7°F in the afternoon. What was the change in temperature in degrees Fahrenheit?

|-7| + |40|

- (A) -47
- (B) -33
- (C) 33
- (D) 47