

Geo Bellwork

Monday, March 16,2020

Questions 9 and 10 refer to the following information.

$$a = 1,052 + 1.08t$$

The speed of a sound wave in air depends on the air temperature. The formula above shows the relationship between a, the speed of a sound wave, in feet per second, and t, the air temperature, in degrees Fahrenheit (°F).

9

Which of the following expresses the air temparature in terms of the speed of a sound wave?

A)
$$t = \frac{a - 1,052}{1.08}$$

B)
$$t = \frac{a+1,052}{1.08}$$

C)
$$t = \frac{1,052 - a}{1.08}$$

D)
$$t = \frac{1.08}{a + 1,052}$$

10

At which of the following air temperatures will the speed of a sound wave be closest to 1,000 feet per second?

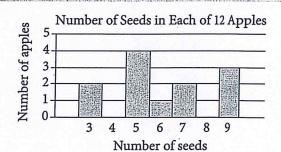
- A) -46°F
- B) -48°F
- C) -49°F
- D) -50°F

.11

Which of the following numbers is NOT a solution of the inequality $3x - 5 \ge 4x - 3$?

- A) -1
- B) -2
- C) -3
- D) -5

12



Based on the histogram above, of the following, which is closest to the average (arithmetic mean) number of seeds per apple?

- A) 4
- B) 5
- C) 6
- D) 7



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$$(A) t = \frac{a - 1,052}{1.08}$$

B)
$$t = \frac{a+1,052}{1.08}$$

C)
$$t = \frac{1,052 - a}{1.08}$$

D)
$$t = \frac{1.08}{a + 1,052}$$

a = 1,052 + 1,08 + -1,052 -1,05L



At which of the following air temperatures will the speed of a sound wave be closest to 1,000 feet per second? a-value

Which of the following numbers is NOT a solution of the inequality $3x - 5 \ge 4x - 3$?

- (A) -1
- B) -2
- C) -3
- D) -5

solve this inequality

$$3x - 5 \ge 4x - 3$$

 $-3x - 3x$
 $-5 \ge x - 3$
 $+3 + 3$

-2 ≥ X

method 2:

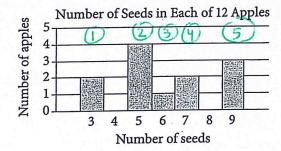
SUBSTITUTE EACH
CHOICE BACK INTO
THE INFORGLITY
UNTIL YOU FIND
ONE THAT
ISN'T A SOLO

X is less than or equal to -2

than or equal to -2. Therefore, A is

the answer

12



Based on the histogram above, of the following, which is closest to the average (arithmetic mean) number of seeds per apple?

- A) 4
- B) 5
- (C) 6
- D) 7

~ lo speds/apple

TOTAL # seeds