

These Do NOWs are meant to help you to think quickly and accurately. Some permit the use of calculators others do not.

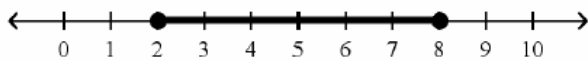
March 16, 2017

Use Calculators only if absolutely necessary.

5 Minutes 5 Questions. Let us see how many of you and which groups can get them all correct.

Question 1.

Which compound inequality is shown by the graph below?



- a. $x \geq 2$ AND $x \leq 8$
- b. $x \geq 2$ OR $x \geq 8$
- c. $x \geq 2$ OR $x \leq 8$
- d. $x \leq 2$ OR $x \leq 8$

Question 2.

Solve $3(a - 4) + 2(a + 1) = 10 - 5a$.

- a. 0
- b. 2
- c. all real numbers
- d. no solution

Question 3.

There were T people waiting for buses at the station. When the first bus arrived, n people boarded it. The remaining p people waited for buses to other places.

Use the equation $T - n = p$, to find n , the number of people who boarded the first bus.

- a. $n = p - T$
- b. $n = \frac{T}{p}$
- c. $n = T - p$
- d. $n = T + p$

Question 4.

A printer holds 500 sheets of paper. After printing it held 210 sheets. Of the sheets that were printed, $\frac{1}{2}$ of them were color and $\frac{1}{2}$ of them were grayscale. Which equation can be used to find s , the number of sheets that were printed in color?

a. $\frac{s}{2} - 500 = 210$

c. $210 - 500 = 2s$

b. $500 - \frac{1}{2}s = 210$

d. $500 - 2s = 210$

Question 5.

Jamie needs to simplify the expression below before she substitutes values for a and b .

$$\frac{a^{15}b^{12} - a^5b^8}{a^3b^2}$$

If $a \neq 0$ and $b \neq 0$, which of the following is a simplified version of the expression above?

a. $a^5b^6 - a^5b^4$

c. a^6b^4

b. $a^{12}b^{10} - a^2b^6$

d. a^7b^2