

1- Solve for x?

$$6 = \frac{x}{4} + 2$$

A. $x = 16$

B. $x = 13$

2- Sara is thinking of a number. Nine more than the product of 4 and the number is 78. What is the equation?

a. $4x = 78$

b. $9x + 4 = 78$

c. $4x + 9 = 78$

d. $4 + 9x = 78$

3- three more than twice a number is 8. ?

a. $2x + 3 = 8$

B. $2x - 3 = 8$

C. $3x - 2 = 4$

D. $2x + 2 = 4$

Next 

4. Solve. using distributive property $3(x + 3) = 15$

- A. $x = 0$
- B. $x = 2$
- C. $x = -2$
- D. $x = 3$

5. Solve the equation. $20c + 25 = 175$

- A. $c = 7.5$
- B. $c = -7.5$
- C. $c = 7$
- D. $c = -7$

6. Choose the solution to this inequality.

$$\frac{4}{3} < -\frac{8}{3}y$$

- A. $y < -\frac{1}{2}$
- B. $y > \frac{1}{2}$
- C. $y < \frac{4}{3}$
- D. $y > 4$

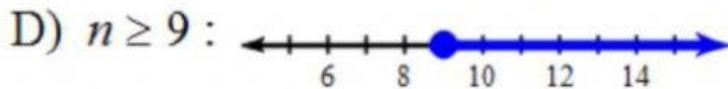
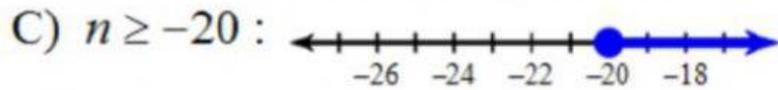
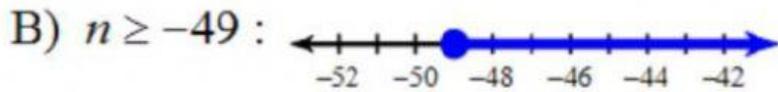
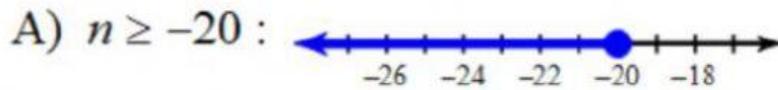
7. All of the teachers in a school are surveyed on their meeting time preferences. Population or Sample?

- a. Population
- b. Sample



8. Solve and graph the inequality.

$$77 \leq 5 + 8n$$



9. Do I need to flip my sign? $-8x \geq 21$

- A. Yes, because I'll be dividing by a negative number
- B. No, because you never flip the sign.

10. 3 out of 5 doctors surveyed by a pharmaceutical company prefer their new Brand X medicine compared to the other leading brand. Is this a valid inference?

- a. Yes they randomly chose doctors for the survey.
- b. No there is no evidence that they chose the doctors for the survey at random.
- c. Yes there is an evidence.
- a. This survey is inaccurate.



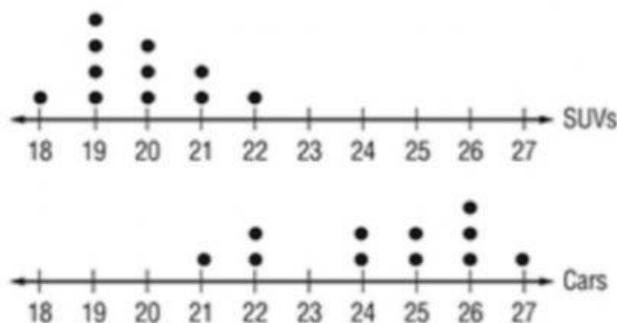
11. A student surveys Science teachers to get their opinion on teaching. What is the population?

- a. Few teachers within the school.
- b. All Science teachers in United States.
- c. Science teachers for middle school.

12. Solve: $3 < -5n + 2n$

- a. $n < -1$
- b. $n > 1$
- c. $n < 11$
- d. $n > -11$

13. The following dot plots show the ages of two groups of tourists. What is the first step for calculating the mean?



- a. The first step should be to average the minimum and maximum values that have dots.
- b. The first step should be to count the number of dots for each age.

