

Have your inequality homework out on your desk to be checked.

1) What is the inverse of addition? (Circle One)

A) Subtraction

B) Multiplication

C) Division

2) **SHOW WORK to receive full credit**

Find the value of x:

$$x - 8 = 24$$

$$+8 \quad +8$$

$$\boxed{x = 32}$$

show check

$$(32) - 8 = 24 \checkmark$$

3) **SHOW WORK to receive full credit**

Find the value of x:

$$x + 5 = 12$$

$$\begin{array}{r} -5 \quad -5 \\ \hline x = 7 \end{array}$$

check

$$(7) + 5 = 12 \checkmark$$

4) **SHOW WORK and CHECK to receive full credit**

Find the value of x:

$$x + 12.5 = 17.1$$

$$-12.5 \quad -12.5$$

$$\begin{array}{r} 6 \\ 17.1 \\ -12.5 \\ \hline 4.6 \end{array} \quad \boxed{x = 4.6}$$

$$\begin{array}{r} 12.5 \\ + 4.6 \\ \hline 17.1 \end{array} \checkmark$$

5) The inverse of multiplication is: _____ . (Circle one)

A) Subtraction

B) Addition

C) Division

6) Which value of b makes the equation

$$\frac{x}{4} = 12 \text{ true?}$$

48

8

6

3

$$4 \times 12$$

$$\frac{(48)}{4} = 12 \checkmark$$

7) **SHOW WORK to receive full credit**

Find the value of x:

$$\frac{x}{12} = 5$$

$$12 \times 5 = 60$$

$$\boxed{x = 60}$$

$$\frac{60}{12} = 5 \checkmark$$

8) SHOW WORK to receive full credit

Find the value of x:

$$\frac{5x}{5} = \frac{4.5}{5}$$

$$x = 0.9$$

$$5 \overline{) 4.5} \begin{array}{r} .9 \\ \underline{45} \\ 0 \end{array}$$

check

$$\begin{array}{r} 0.9 \\ \times 5 \\ \hline 4.5 \end{array}$$

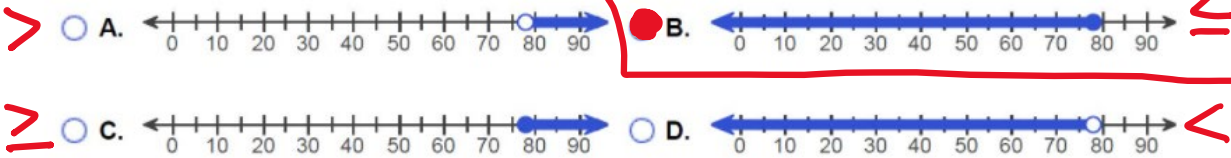
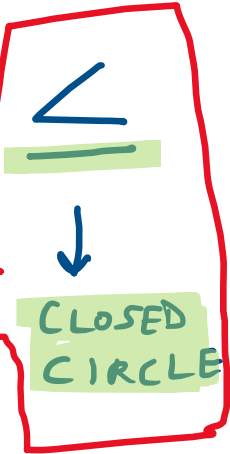
9) Select **all** the values of m that make the inequality $m < 7.4$ true.

- A) 7.40 B) 7.09
 C) 6.8 D) 7.09
 E) 6.8

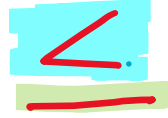
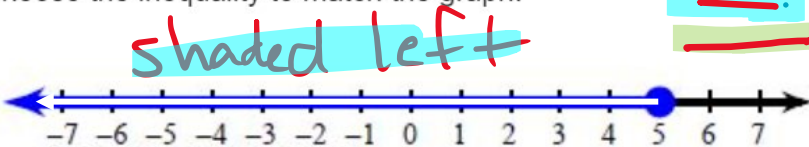
10) Choose the inequality that models the situation:

The temperature was no more than 78 degrees.

NOT MORE THAN includes 78



11) Choose the inequality to match the graph:



closed circle

- A) $x > 5$ B) $x < 5$ C) $x \geq 5$ D) $x \leq 5$

12) Choose the situations that can be expressed by the following inequality:

(Choose all that apply)

$$x \leq 30$$



You must be no more than 30 years old to join the club.

Not more than \leq

Cakes take at least 30 minutes to bake.

$$x \geq 30$$



You have no more than 30 minutes to answer the three questions.

$$x \leq 30$$

___ The bill at the restaurant will be at least 30 dollars.

$$x \geq 30$$

> open circle <

• greater than
• more than

• less than
• fewer than

>= closed circle <=

• at least
• no less than
• greater than and equal

<

• at most
• no more than
• less than and equal to