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## Linear Equations and Inequalities Worksheets

1) Find the solution of the following equation:

$$\frac{4}{3}(2x+3)-2=x$$

2) If  $a$ ,  $b$ ,  $c$  are three consecutive integers such that  $2a+3b+4c=110$ , find the values of  $a$ ,  $b$  and  $c$

3) Solve the given inequality:

$$9x+4>10$$

4) Choose the correct possible solution of the following inequality:

$$2f-3\leq 12+5f$$

a)  $f\leq -5$

b)  $f\leq 3$

c)  $f\geq -5$

d)  $f\leq 5$

5) Solve for  $q$ :

$$0.3q+0.76=0.2(3+3q)$$

6) In the given equation, find the value of the unknown:

$$\frac{x}{3}+2=\frac{4}{7}-\frac{7}{3}$$

7) Solve the following linear equation:

$$\frac{5x-2}{3}+1\frac{1}{4}=2$$

8) If  $\frac{x-2}{10} + x = \frac{x}{3}$ , then find the value of  $23x+4$ .

9) Ten years from now William's age will be six times his present age. What is his present age?

10) Fixed fair of hiring a taxi is \$12, fare for every additional mile is \$5 per mile. Set up an inequality to show how much a person can travel with \$50 or less. Represent the additional mile by  $m$ .



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- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	9,10,11
2)	$x > \frac{2}{3}$
3)	12km
4)	(C)
5)	$x = \frac{11}{2}$
6)	$x = \frac{-79}{7}$
7)	$x = \frac{17}{20}$
8)	10
9)	2 years
10)	$12 + 5m \leq 50$

## FUN FACT

- In a linear equation, algebraic expressions on both sides are equal to each other.
- We solve a linear equation by using the balancing or transposing method.
- We use symbols like  $>$  to compare the two sides in case of an inequality.

