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Linear Equations and Inequalities Worksheets

1) For what values of p, will the given inequality be valid?

$$\frac{2}{3}-\frac{p}{4}\geq\frac{7}{6}$$

2) The speed of a vehicle was 40 km/hr throughout point A to point B. Find the time taken by the vehicle to reach if the distance covered was 5 km while travelling from A to B.

3) Solve the given equation:

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

4) Jackson has to travel from point A to point B. He travels $\frac{3}{4}th$ of the total distance by train, $\frac{1}{6}th$ of the total distance by taxi, and the remaining 1 km by foot. Find the total distance.

5) Adam scores more than 85 on an average in all the subjects $A,B,C,D,$ and E. Express this situation using an inequality.

6) 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. $f \leq 5$

7) A maximum of 500 tourists went on a road trip. 8 buses were filled and the remaining 9 tourists went in a car. Express the following situation as an inequality.

Represent the number of buses by b.

8) For the given inequality, pick the value of x for it is valid:

$$-7x - 29 > 6$$

A. $x < 5$

B. $x > 5$

C. $x < -5$

D. $x > -5$

9) Find the solution of the following equation:

$$\frac{7(x-6)+42+3x+1}{7+3(x+1)+7x} = \frac{3}{4}$$

10) The ages of Jason and Jackson are in the ratio 3:2. After 3 years, their ages are in the ratio 7:5. Find their present ages.

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"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- 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)	$p \leq -2$
2)	$0.125 hours$
3)	$x = \frac{3}{44}$
4)	$12 km$
5)	$\frac{A+B+C+D+E}{5} < 85$
6)	(C)
7)	$8b + 9 \leq 500$
8)	(C)
9)	$x = \frac{13}{5}$
10)	Jason's age = 18 years Jackson's age = 12 years

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.