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Linear Inequalities Worksheets

- 1) Matthew has to work on d number of days in a night shift and **5** days more than the night shift in a day shift. Represent this situation using inequality for the month of April.
- 2) Jonathan has collected **\$100** in his piggy bank. He spent $\$x$ on food, **\$47** to rent a bike and the remaining $\$y$ to rent a video game. Represent this situation using inequality.
- 3) 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 .
- 4) When a number x is added to the number **58**, the result is at least **27** more than twice the number. Express this situation using an inequality.
- 5) Adam scores more than **85** as average marks in the subjects **A, B, C, D**, and **E**. Express this situation using an inequality.
- 6) Solve the given inequality and represent the solution graphically:

$$\frac{2x}{3} > 4$$

7) Find the solution of the inequality:

$$8z + 4 \geq 9$$

8) Find the set of whole numbers that forms the solution set for the following inequality:

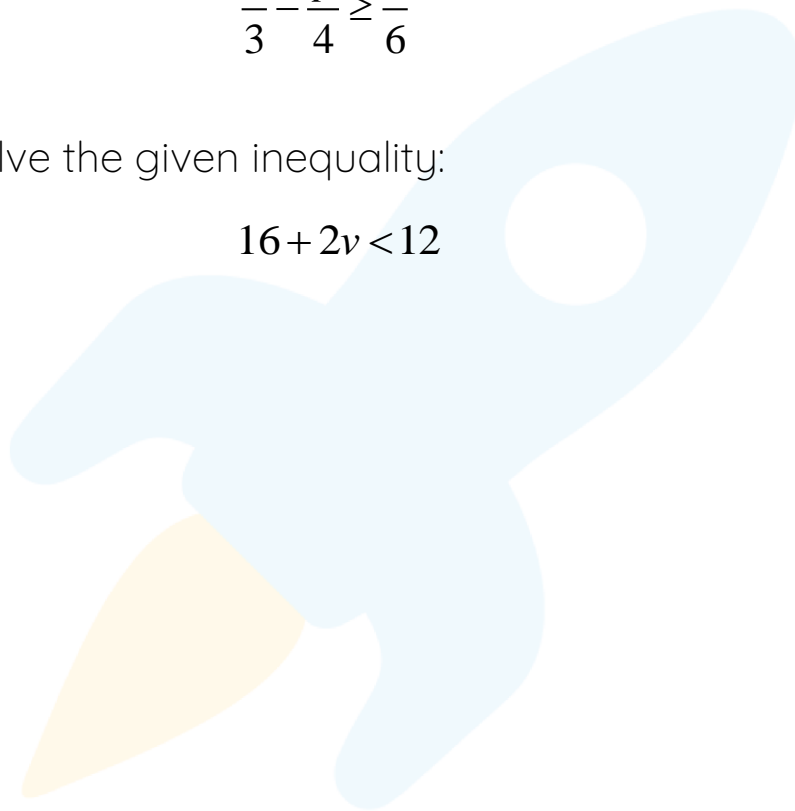
$$4x - 6 > 12$$

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

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

10) Solve the given inequality:

$$16 + 2v < 12$$



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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

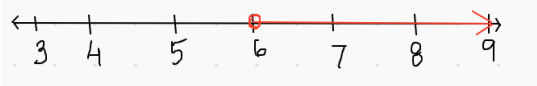
"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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ANSWERS

1)	$d + 10 \leq 30$
2)	$x + 47 + v \leq 100$
3)	$8b + 9 \leq 500$
4)	$x + 58 \geq 27 + 2x$
5)	$\frac{A + B + C + D + E}{5} > 85$
6)	$x > 6$ 

7)	$z \geq \frac{5}{8}$
8)	Solution set of whole numbers: $\{5, 6, 7, 8, \dots\}$
9)	$p \leq -2$
10)	$v < -2$

FUN FACT

1. Inequality is a relation between two expressions that are not equal to each other.
2. We solve any inequality to find the solution of it.
3. We use symbols like $>$, $<$, \leq *or* \geq to compare the two sides.

