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7th Grade Inequalities Worksheets

1) Find the solution of the following inequality:

$$2q - 5 \leq 6$$

2) For what values of s will the inequality be valid?

$$12s - 6 \geq 7s$$

3) The solution $y \geq 2$ belongs to which inequality?

A. $y + 16 \leq 2 - 8y$

B. $y - 16 \leq 2 - 8y$

C. $y - 16 \leq 2 + 8y$

D. $y + 16 \leq 2 + 8y$

4) Graphically represent the solution of the following inequality:

$$5k - 6 < 19$$

5) For the given inequality, pick the value of r for it is valid:

$$-7r - 29 > 6$$

A. $r < 5$

B. $r > 5$

C. $r < -5$

D. $r > -5$

6) Plot the solution of the given inequality on a number line:

$$2n - 29 \geq 16 - 7n$$

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

$$5p > 10p - 15$$

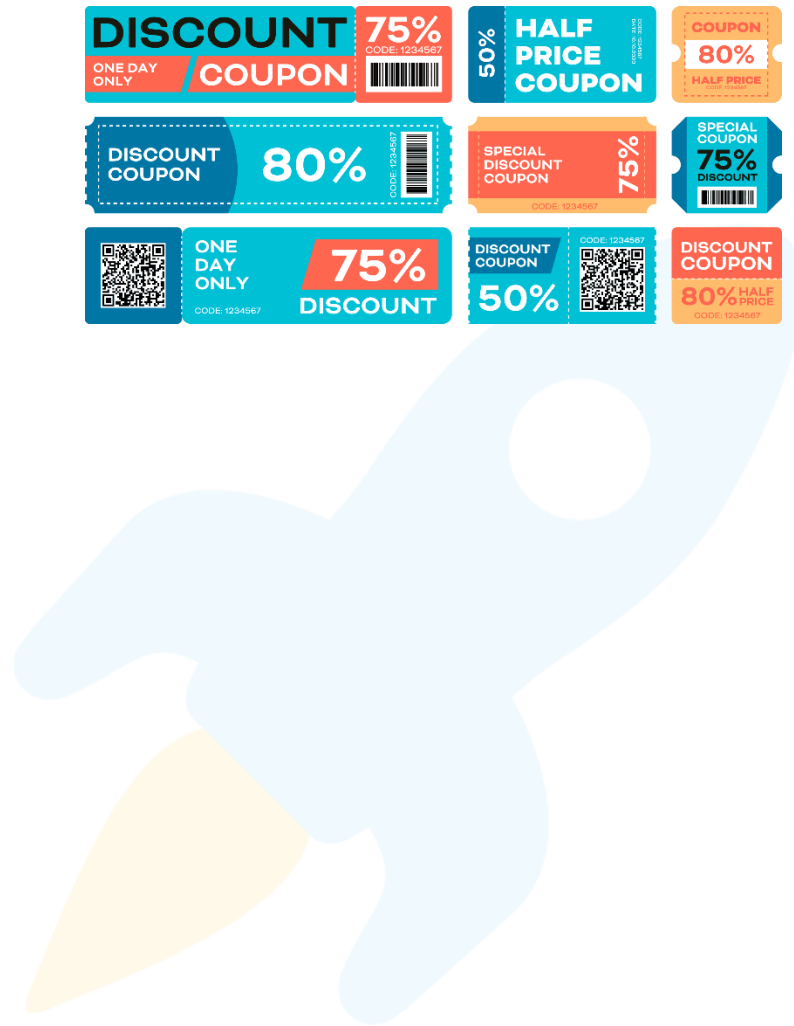
- A. $p > 3$
- B. $p < 3$
- C. $p > -3$
- D. $p < -3$

8) 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 .



9) A number s when doubled is more than equal to the result when **51** is subtracted from the square of s . Represent this situation using an inequality.

- 10) Jazz has 7 more free coupons of an event than his friend Shelly. If Shelly has x number of free coupons and together they have at least 21 coupons, frame an inequality to represent this situation.



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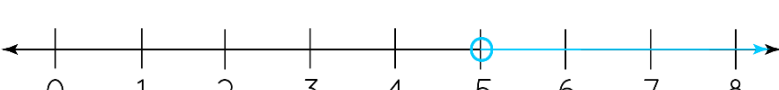
- Barbara Cabrera

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ANSWERS

1)	$q \leq \frac{11}{2}$
2)	$s \geq \frac{6}{5}$
3)	(D)
4)	$k < 5$  <p>A number line from 0 to 8 with tick marks at every integer. An open circle is drawn at 5, and a blue arrow points to the left from this circle.</p>
5)	(C)
6)	$n \geq 5$  <p>A number line from 0 to 8 with tick marks at every integer. A closed circle is drawn at 5, and a blue arrow points to the right from this circle.</p>

7)	(A)
8)	$12 + 5m \leq 50$
9)	$2s \geq s^2 - 51$
10)	$2x + 7 \leq 21$

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.

