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

2) Find the solution of the following inequality:

$$\frac{5}{7}k - 6 < 19$$

3) For what values of n is the inequality valid?

$$21n - \frac{1}{6} \geq 1 + 14n$$

4) Solve:

$$\frac{2q - 5}{3 - q} \leq 6$$

5) 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.

6) Solve the given inequality and plot it on a graph:

$$\frac{x}{3} < -2$$

7) Simplify:

$$\frac{8-r}{6+2r} < 1$$

8) $b > -1$ is a solution of an inequality. Pick that inequality from the following options:

A. $\dfrac{3b-9}{6} > 1$

B. $1 > \dfrac{9}{6-3b}$

C. $\dfrac{3b+6}{9} < 1$

D. $1 > \dfrac{6}{3b+9}$

9) For what value of a, will the following inequality be valid?

$$a - \frac{7}{2} \geq \frac{23}{4} - 3a$$

10) $\$k$ is to divided among 11 people such that each one of them gets at least 5 more than $\dfrac{2}{5}th$ of k. Frame an inequality to represent this situation.

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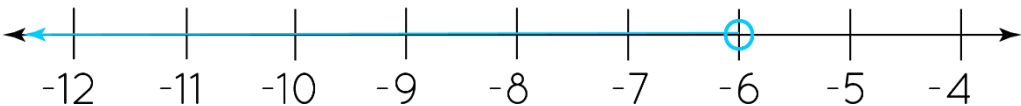
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1)	$\dfrac{s}{2} \geq s^2 - 51$
2)	$k < 35$
3)	$n \geq \dfrac{1}{6}$
4)	$q \leq \dfrac{23}{8}$
5)	$2x + 7 \leq 21$
6)	$x < -6$

7)	$r > \dfrac{2}{3}$
8)	(D)
9)	$a \geq \dfrac{37}{16}$
10)	$\dfrac{k}{11} \geq 5 + \dfrac{2k}{5}$

FUN FACT

1. We must add or subtract the same quantity on both sides of an inequality.

2. We must multiply or divide the same quantity on both sides of an inequality.