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Solving Inequalities With Fractions Worksheets

For Questions (1-5), find the possible solutions of the following inequalities:

1) $11 \leq \frac{2m+3}{9}$

- A. $m \leq 48$
- B. $m \geq -48$
- C. $m \leq -48$
- D. $m \geq 48$

2) $\frac{57-17n}{n} > -36$

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

3) $\frac{2f-3}{12+5f} \leq 7$

- A. $f \geq \frac{87}{33}$
- B. $f \leq \frac{87}{33}$
- C. $f \leq \frac{-87}{33}$
- D. $f \leq \frac{-87}{33}$

4) $\frac{1}{2} < \frac{3+q}{8-q}$

A. $q > \frac{-2}{3}$

B. $q > \frac{2}{3}$

C. $q < \frac{2}{3}$

D. $q < \frac{-2}{3}$

5) $1 > \frac{-6}{7r+29}$

A. $r < 5$

B. $r > 5$

C. $r < -5$

D. $r > -5$

6) For what values of u , will the following inequality be valid?

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

7) Solve the following inequality and represent graphically:

$$\frac{1}{2} + \frac{7r}{30} < \frac{r}{2} - \frac{3}{10}$$

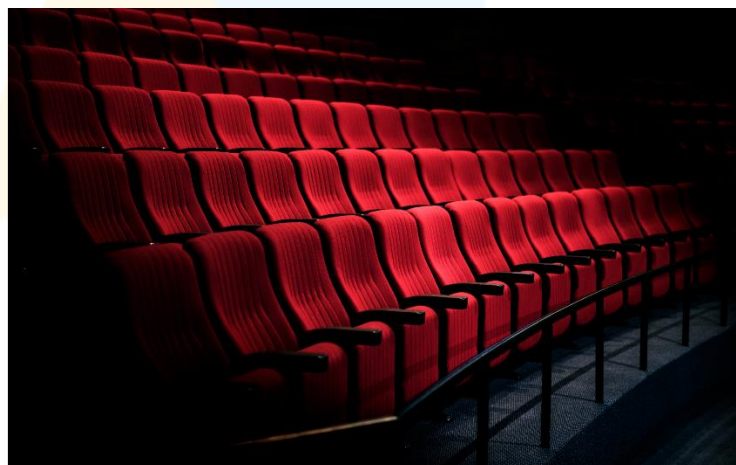
8) A maximum of **500** tourists went on a road trip. **8** buses were filled and the remaining **9** tourists went in a car. Express the following situation as an inequality. Represent the number of buses by b .



- 9) The height (h) of a person should not be less than 3.8 ft to ride the roller coaster. Express this situation using an inequality.



- 10) There are p number of seats that can be reserved in an auditorium and q number of seats that cannot be reserved. If there is a maximum of **999** seats in the auditorium, represent the situation using an inequality.



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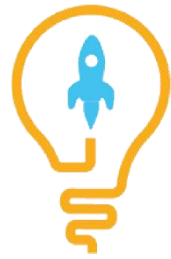
- Kirk Riley

"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."

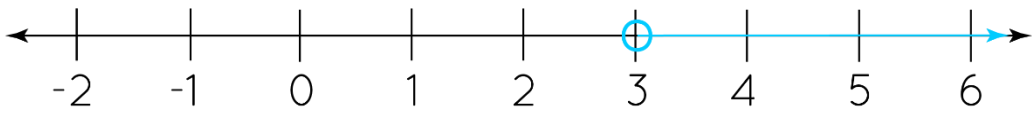
- Barbara Cabrera

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ANSWERS

1)	(D)
2)	(C)
3)	(C)
4)	(B)
5)	(C)
6)	$u \geq \frac{37}{16}$

7)	$r > 3$  <p>A number line with tick marks from -2 to 6. An open circle is drawn at 3, and a blue ray starts at this circle and extends to the right, ending in an arrowhead.</p>
8)	$8b + 9 \leq 500$
9)	$h \geq 3.8$
10)	$p + q \leq 999$

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.

