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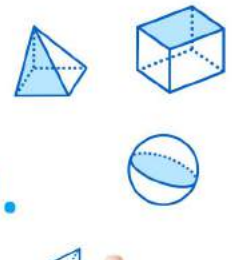

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Solving Inequalities With Fractions Worksheets

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

1) $\frac{4}{11}x < 15 - x$

A. $x < -11$
B. $x > 11$
C. $x < 11$
D. $x > -11$

2) $2 - z \geq -\frac{z}{3}$

A. $z \leq 3$
B. $z \leq -3$
C. $z \geq -3$
D. $z \geq 3$

3) $21 - \frac{4a}{9} > \frac{a}{6} - 12$

A. $a > 54$
B. $a < -54$
C. $a > -54$
D. $a < 54$

4) $-7 \geq \frac{3}{22} - x$

A. $x \geq \frac{157}{22}$
B. $x \leq \frac{-157}{22}$
C. $x \leq \frac{157}{22}$
D. $x \geq \frac{-157}{22}$

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

A. $p \leq -2$

B. $p \leq -2$

C. $p \leq 2$

D. $p \leq -2$

6) The length of the rectangle is $\frac{7}{9}th$ times its width. The width of the rectangle is 27 units and the length of the wire that is used to make this rectangle is a maximum of 96 units. Find the maximum value of the area of the rectangle that gets formed.

7) Fixed fare of hiring a taxi is $\$12$, fare for every additional mile is $\frac{m}{3}rd$ of the fixed fare for every mile. Set up an inequality to show how much a person can travel with $\$50$ or less if he travelled for m miles. Represent the situation as equality.

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

$$s+6 \leq 8s-4$$

A. $s \geq \frac{7}{10}$

B. $s \leq \frac{10}{7}$

C. $s \geq \frac{10}{7}$

D. $s \leq \frac{7}{10}$

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

10) Solve the following inequality graphically:

$$\frac{4}{9} - x \geq \frac{1}{9} - \frac{3}{2}x$$

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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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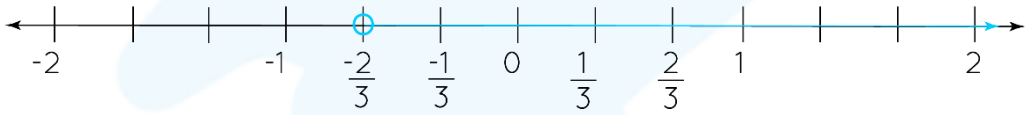
ANSWERS

1)	(C)
2)	(A)
3)	(D)
4)	(D)
5)	(B)
6)	567 square units

7)	$12+4m^2 \leq 50$
8)	(C)
9)	$\frac{A+B+C+D+E}{5} > 85$
10)	$x \geq \frac{-2}{3}$ 

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.

3. When we plot an inequality on a