

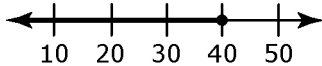
Chapter 9 Warm-Up

Section 9.1

1. Solve: $\frac{-8.2}{n} = 2$
2. Solve: $2x - 8 = -15$
3. Solve: $3(1.2x - 0.2) = 6.6$
4. Solve: $2x - \frac{1}{4} = 3x + \frac{3}{8}$
5. Solve: $\frac{3}{4}x = \frac{1}{4}(x + 6)$

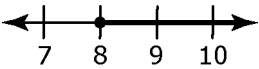
Section 9.2

1. Solve: $3(x - 3.5) = -2(x + 8)$
2. Is 2 the solution to $2.8(2x - 3) = 5 - 1.6x$? Support your answer.
3. Express the inequality, in two different ways.



4. Draw a number line for the inequality $x < -3$.
5. Describe $x > -5$ and $x \leq 7$ in words.

Section 9.3

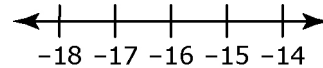
1. Verbally and algebraically express the inequality represented by this number line.
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2. Draw the number line that represents the solution to $x \geq 5$ and $x \leq 8$.
 3. Solve the inequality $x + 3.5 \leq 9.6$. State your solution in words.
 4. When solving $-5x < 35.5$, you divide both sides by -5 . When you do this, what happens to the inequality?
 5. a) Solve $-2x + 8 < -4$.
b) Draw a number line to represent the solutions.

Mental Math

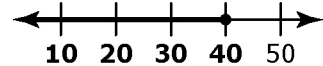
6. Solve: $x - 5 = -8$
7. Solve: $-4x = -36$
8. Solve: $\frac{x}{5.2} = -10.3$
9. Solve: $y + 3 = -9$
10. Solve: $1.6 = -\frac{1}{5}x$

Mental Math

6. Is $3 < 8$ a true statement? Support your answer.
7. Is $-5 > -8$? Explain using a number line.
8. Describe all the integers to the right of -17 on a number line.



9. Describe the integers that are bold on this number line.



10. Describe the numbers that would make this a true statement: _____ < 8 .

Mental Math

6. Solve: $-4x - 18 = 22$
7. Solve: $\frac{x}{4} + 3 = 8$
8. Solve: $2x = 5x - 24$
9. Solve: $-3x - 10 = 5x + 38$
10. Solve: $-2(x - 6) = 4x$