

Name : _____

Equations and Inequalities

Solve for the variable.

1 $2(3x + 4) = 7$

2 $\frac{x}{6} + 9 \leq 10$

3 $7.5 - x = 26.8$

4 $15x - 6 \geq -21$

5 $8.4 - 2g < 16$

6 $\frac{x}{7} - 2 = 8$

Solve the given word problems.

7 Tony paid \$8.54 for a pizza. He now has \$16.79. With how much money did he start?

8 Debbie is saving for a new scooty. She currently has \$125. If she saves \$15 per week how long must she wait to save at least \$600 to cover all her expenses including tax?

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Equations and Inequalities

Answers

1 $2(3x + 4) = 7$

2 $\frac{x}{6} + 9 \leq 10$

$x = -\frac{1}{6}$

$x \leq 6$

3 $7.5 - x = 26.8$

4 $15x - 6 \geq -21$

$x = -19.3$

$x \geq -1$

5 $8.4 - 2g < 16$

6 $\frac{x}{7} - 2 = 8$

$g > -3.8$

$x = 70$

7 Tony paid \$8.54 for a pizza. He now has \$16.79. With how much money did he start?

Ans: \$25.33

8 Debbie is saving for a new scooty. She currently has \$125. If she saves \$15 per week how long must she wait to save at least \$600 to cover all her expenses including tax?

Ans: $125 + 15w \geq 600$