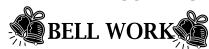
SOLVING INEQUALITIES WITH VARIABLES ON BOTH SIDES

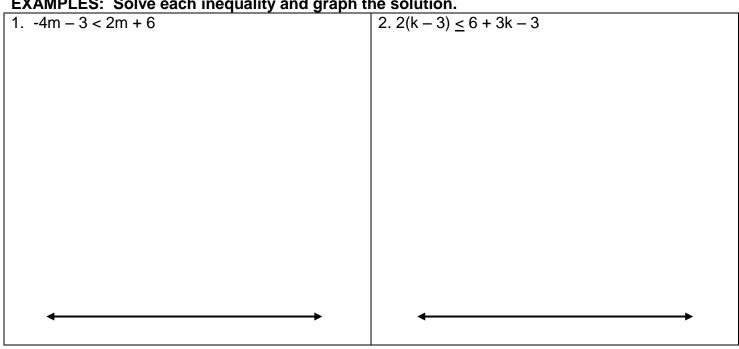


1. If t + 8 = 2, find the value of 2t.

A. -12 B. -6 C. 12 D. 20

2. Solve 2(3z + 1) = -2(z + 3)

EXAMPLES: Solve each inequality and graph the solution.



EXAMPLE: Write an inequality and solve.
3. The Houston Chronicle charges a fee of \$650 plus \$80 per week to run an ad. The Bryan-College
Station Eagle charges \$145 per week. For how many weeks will the total cost at The Houston
Chronicle be less than the cost at The Bryan-College Station Eagle?
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4. Your quiz grades are 78, 72, 87, and 90. What score on the fifth quiz will make your average quiz
grade at least 82?
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5. When you rent a car from Car-Rent-A-Center, there are 2 payment options. You can pay \$25 a day
plus 15¢ a mile (option A) or you can pay \$10 a day plus 40¢ a mile (option B). For what amount of
daily miles will option A be the cheaper plan?