

EXAMPLE 2 Check whether 3 is a solution of the equation or inequality.

a) $8 - 2x = 2$ _____

b) $4x - 5 = 6$ _____

c) $2z + 5 > 12$ _____

d) $5 + 3n \leq 20$ _____

EXAMPLE 3 Solve using mental math.

a) $x + 4 = 10$ _____

b) $20 - y = 8$ _____

c) $6n = 42$ _____

d) $a/5 = 9$ _____

EXAMPLE 4 The last time you and 3 friends went to a mountain bike park, you had a coupon for \$10 off and paid \$17 for 4 tickets. What is the regular price of 4 tickets? If you pay the regular price this time and share it equally, how much does each person pay?

EXAMPLE 5 A basketball player scored 351 points last year. If the player plays 18 games this year, will an average of 20 points per game be enough to beat last year's total?