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Unit 6, Lesson 10
Practice Problems

1. Andre wants to buy a backpack. The normal price of the backpack is $40. He notices that a store that sells the backpack is having a 30% off sale. What is the sale price of the backpack?

2. On the first math exam, 16 students received an A grade. On the second math exam, 12 students received an A grade. What percentage decrease is that?

3. Solve each equation.

   a. $2(x - 3) = 14$

   b. $-5(x - 1) = 40$

   c. $12(x + 10) = 24$

   d. $\frac{1}{6}(x + 6) = 11$

   e. $\frac{5}{7}(x - 9) = 25$

4. Select **all** expressions that represent a correct solution to the equation $6(x + 4) = 20$.

   A. $(20 - 4) \div 6$

   B. $\frac{1}{6}(20 - 4)$

   C. $20 - 6 - 4$

   D. $20 \div 6 - 4$

   E. $\frac{1}{6}(20 - 24)$

   F. $(20 - 24) \div 6$

5. Lin and Noah are solving the equation $7(x + 2) = 91$.

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Lin starts by using the distributive property. Noah starts by dividing each side by 7.

a. Show what Lin's and Noah's full solution methods might look like.

b. What is the same and what is different about their methods?