2016 Mathematics Standards of Learning
Algebra Readiness Formative Assessment

5.19d

1. Create a word problem the could be used to describe the given equation $8x = 48$.

2. Create a word problem that could be used to describe the given equation $\frac{x}{7} = 9$.

3. Which of these problems can be solved by using the equation z – 8 = 40

   a. Natalie has some cherry tomatoes that she shares with 8 of her friends. If each friend receives 40 tomatoes, how many tomatoes did she start with?

   b. Sam had some paper clips, and his friend gave him 8 more. He now has 40 paper clips. If *z* represents the number of paper clips he started with, how many did start with?

   c. Melissa ate 8 blueberries. If *z* is the amount of blueberries she started with, and she has 40 left, how many blueberries did she start with?

   d. Jack earns $8 every time he mows the lawn. If he earned $40 and *z* represents the number time he mowed the lawn, how many times did he mow the lawn?

4. Which of these could be solved by using the equation $7x = 35$

   a. Marsha plants some daisies. Then she plants 7 tulips. There are 35 flowers in all. If x represents the number of daisies Marsha planted, how many daisies did she plant?

   b. Mobee works for 7 hours. He earns a certain amount of money for each hour he works and makes a total of $35. If x represents the amount of money he earns per hour, how much money does he make per hour?

   c. Tamika has some cookies and eats 7 of them. There are 35 cookies left. If x represents the number of cookies she started with, how many cookies did she start with?

   d. Pam has some candy that she shares with 7 friends. Each friend receives 35 pieces of candy. If x represents the number of pieces of candy Pam had, how many did she have?

5. Bella brought stickers to give to 12 of her friends. Each friend received 4 stickers. Which equation describes how many stickers Bella brought to school?

   a. 4x = 12
   b. $\frac{x}{4} = 12$
   c. $x + 4 = 12$
   d. x – 4 = 12