



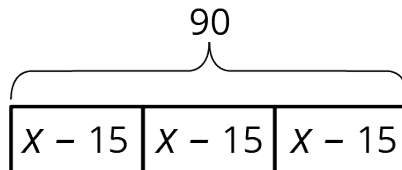
NAME _____

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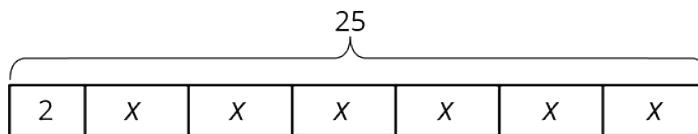
PERIOD _____

Unit 6, Lesson 6**Practice Problems**

1. A school ordered 3 large boxes of board markers. After giving 15 markers to each of 3 teachers, there were 90 markers left. The diagram represents the situation. How many markers were originally in each box?



2. The diagram can be represented by the equation $25 = 2 + 6x$. Explain where you can see the 6 in the diagram.



3. Elena walked 20 minutes more than Lin. Jada walked twice as long as Elena. Jada walked for 90 minutes. The equation $2(x + 20) = 90$ describes this situation. Match each amount in the story with the expression that represents it.

- | | |
|----------------|--|
| A. x | 1. The number of minutes that Jada walked |
| B. $x + 20$ | 2. The number of minutes that Elena walked |
| C. $2(x + 20)$ | 3. The number of minutes that Lin walked |
| D. 90 | |

4. Match each equation to a story. (Two of the stories match the same equation.)



NAME	DATE	PERIOD
A. Jada's teacher fills a travel bag with 5 copies of a textbook. The weight of the bag and books is 17 pounds. The empty travel bag weighs 3 pounds. How much does each book weigh?	1. $3(x + 5) = 17$	
	2. $3x + 5 = 17$	
	3. $5(x + 3) = 17$	
	4. $5x + 3 = 17$	
B. A piece of scenery for the school play is in the shape of a 5-foot-long rectangle. The designer decides to increase the length. There will be 3 identical rectangles with a total length of 17 feet. By how much did the designer increase the length of each rectangle?		
C. Elena spends \$17 and buys a \$3 book and a bookmark for each of her 5 cousins. How much does each bookmark cost?		
D. Noah packs up bags at the food pantry to deliver to families. He packs 5 bags that weigh a total of 17 pounds. Each bag contains 3 pounds of groceries and a packet of papers with health-related information. How much does each packet of papers weigh?		
E. Andre has 3 times as many pencils as Noah and 5 pens. He has 17 pens and pencils all together. How many pencils does Noah have?		