NAME   DATE   PERIOD

Unit 6, Lesson 3
Practice Problems

1. Solve each equation mentally.

   a. $2x = 10$

   b. $-3x = 21$

   c. $\frac{1}{3}x = 6$

   d. $-\frac{1}{2}x = -7$

2. Complete the magic squares so that the sum of each row, each column, and each diagonal in a grid are all equal.
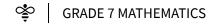
0	7	2
	3	

1		
	3	-2
		5

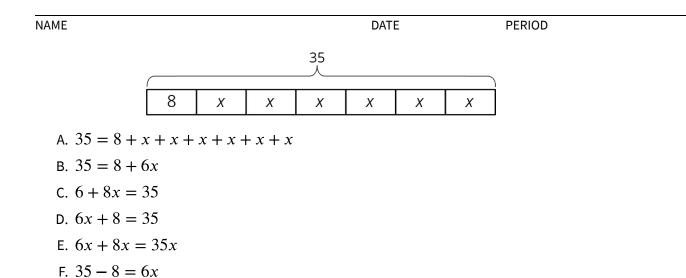|		
4	2	0
-1		

3. Draw a tape diagram to match each equation.

   a. $5(x + 1) = 20$

   b. $5x + 1 = 20$

4. Select **all** the equations that match the tape diagram.

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$$35$$

| 8 | x | x | x | x | x | x |

A. $35 = 8 + x + x + x + x + x + x$

B. $35 = 8 + 6x$

C. $6 + 8x = 35$

D. $6x + 8 = 35$

E. $6x + 8x = 35x$

F. $35 - 8 = 6x$

5. Each car is traveling at a constant speed. Find the number of miles each car travels in 1 hour at the given rate.

a. 135 miles in 3 hours

b. 22 miles in $\frac{1}{2}$ hour

c. 7.5 miles in $\frac{1}{4}$ hour

d. $\frac{100}{3}$ miles in $\frac{2}{3}$ hour

e. $97\frac{1}{2}$ miles in $\frac{3}{2}$ hour