Name _____ Date Answer Key

EQUIVALENT EXPRESSION WORD PROBLEMS: PART 1

For each problem, circle each of the expressions that represent the given situation. There may be more than one correct answer in each problem.

1. The Martin family has 4 dogs. Each dog eats c cups of dog food per week. Circle each of the expressions that represent how many cups of dog food the Martin family should buy each week.

$c + c + c + c$	$c + 4$	c^4	**$4c$**

2. Tanya competed in 5 swim meets last month. At each meet, she swam 6 laps of backstroke and f laps of freestyle. Circle each of the expressions that represent the total number of laps Tanya swam in swim meets last month.

$6 + 5f$	$6(5 + f)$	**$30 + 5f$**	**$5(6 + f)$**

3. Sean is throwing a pizza party. There will be p people at the party altogether. Sean plans to buy $\frac{1}{2}$ of a pizza per person, and each pizza costs $8. Circle each of the expressions that represent how much money Sean will spend on pizza.

$4p$	**$\frac{1}{2} \times 8 \times p$**	$p(\frac{1}{2} + 8)$	$\frac{1}{2} + 8 + p$

4. Tuesday through Sunday, a ticket to the local art museum costs d dollars. The art museum offers a discount every Monday where each ticket is 40% off. Circle each of the expressions that represent the cost of a ticket to the art museum on Mondays.

$d - 0.4d$	$6d$	$1.4d$	**$0.6d$**

5. Devin is taking a French class. His class met every weekday last week. In each class, Devin listened to audio for 10 minutes, practiced vocabulary for 15 minutes, and spoke with a conversation partner for m minutes. Circle each of the expressions that represent the total amount of time Devin spent in French class last week.

$5m + 125$	$10 + 15 + m$	**$5(25 + m)$**	**$5(m + 15 + 10)$**

6. An architect is drafting a proposal for expanding the deck behind Liza's house. Her current deck is 12 feet long and w feet wide. The architect wants to expand both the length and width of the deck by 4 feet. Circle each of the expressions that represent the area of the expanded deck.

$(12 + 4)(12 + w)$	**$(12 + 4)(w + 4)$**	**$16w + 64$**	**$16(w + 4)$**