QUIVALENT EXPRESSION WORD PROBLEMS: PAR

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

Name

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 $4c$	
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Date

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)
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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
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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 + <i>m</i>	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)	16 <i>w</i> + 64	16(w + 4)
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