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## 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.

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.

| $6+5 f$ | $6(5+f)$ | $30+5 f$ | $5(6+f)$ |
| :--- | :--- | :--- | :--- |

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.

| $4 p$ | $\frac{1}{2} \times 8 \times p$ | $p\left(\frac{1}{2}+8\right)$ | $\frac{1}{2}+8+p$ |
| :---: | :---: | :---: | :---: |

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.

| $d-0.4 d$ | $6 d$ | $1.4 d$ | $0.6 d$ |
| :--- | :--- | :--- | :--- |

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 minutes. Circle each of the expressions that represent the total amount of time Devin spent in French class last week.

| $5 m+125$ | $10+15+m$ | $5(25+m)$ | $5(m+15+10)$ |
| :--- | :--- | :--- | :--- |

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.

| $(12+4)(12+w)$ | $(12+4)(w+4)$ | $16 w+64$ | $16(w+4)$ |
| :--- | :--- | :--- | :--- |

