Name $\qquad$ Date $\qquad$

Andrew sells treats from his ice cream cart. The items he sells along with their prices are shown in the table.

| Item | Price | Quantity |
| :--- | :---: | :---: |
| Frosty Mango Pop | $\$ 1.75$ | $a$ |
| Frozen Fruit Yogurt | $\$ 2.25$ | $b$ |
| Sundae Swirl Cup | $\$ 2.75$ | $a$ |
| Chocolate Chip Cone | $\$ 2.25$ | $c$ |
| Fudge Sandwich | $\$ 1.75$ | $b$ |



Suppose Andrew sells the quantities of each item given by the variables in the table.

1. What does the expression $1.75 a+2.25 b+2.75 a+2.25 c+1.75 b$ represent in the context of this problem?
2. An expression equivalent to the one above is $4.5 a+4 b+2.25 c$. What does the first expression show about the quantities in this problem that the second expression does not show?

Name $\qquad$ Date $\qquad$
The width of the rectangle is $x$ inches and the length is $(3 x+2)$ inches.


1. Brit represented the perimeter of the rectangle using the expression:
$x+(3 x+2)+x+(3 x+2)$.
Explain how Brit's expression represents the perimeter of the rectangle.
2. Abbey represented the perimeter of the rectangle with the expression $8 x+4$. Determine if Abbey's expression is equivalent to Brit's expression. Justify your reasoning.
3. Explain what the second expression, $8 x+4$, indicates about finding the perimeter of the rectangle.
