

LESSON
1-3 **Problem Solving**
Multiplying and Dividing Real Numbers

Write the correct answer.

1. Jane's grade point average changed by -0.16 points each term. How much did her grade point average change after 4 terms?

2. Isari's recipe for strawberry smoothies requires $\frac{1}{2}$ cup of sliced strawberries per smoothie. How many smoothies can she make using 8 cups of strawberries?

3. The value of an investor's stock changed by $-1\frac{3}{4}$ points last week. This week, the value changed by 3 times as much. How much did the value of the investor's stock change this week?

4. Jogging on pavement burns 13 calories per minute. Jogging on grass burns 1.07 times as many calories per minute. How many calories would you burn by jogging on grass for 5 minutes? (Round your answer to the nearest tenth.)

Use the table below for exercises 5 – 7, which shows the cost of three different types of season tickets during the Dallas Cowboys 2005 season. Select the best answer.

5. How much money was spent on Upper Level Sideline season tickets in 2005 if 2500 fans bought Upper Level Sideline season tickets?

| | |
|----------------------|----------------------|
| A \$1,315,000 | C \$1,757,500 |
| B \$1,550,000 | D \$1,825,000 |
6. Tom and his two brothers gave their father two Upper Level Far Corner season tickets as a gift. If the brothers shared the cost equally, how much did each one pay towards the gift?

| | |
|----------------|----------------|
| F \$163 | H \$327 |
| G \$245 | J \$980 |
7. If sales of Upper Level Corner season tickets totaled \$1,116,000, how many Upper Level Corner season ticket holders were there?

| | |
|---------------|---------------|
| A 1529 | C 2278 |
| B 1800 | D 6919 |

| 2005 Season Tickets | |
|------------------------|-------|
| Seat Location | Cost |
| Upper Level Sideline | \$730 |
| Upper Level Corner | \$620 |
| Upper Level Far Corner | \$490 |

8. Four friends bought a pair of Upper Level Sideline season tickets. If they shared the cost equally, how much did each pay?

| | |
|-------------------|----------------|
| F \$122.50 | H \$310 |
| G \$182.50 | J \$365 |