

# Applications

For Exercises 1–4, describe a sequence of five correct or incorrect answers that would produce each Math Fever score. Write a number sentence for each score.

1. Super Brains: 300
2. Rocket Scientists:  $-200$
3. Know-It-Alls:  $-250$
4. Teacher's Pets: 0

5. **Multiple Choice** Which numbers are listed from least to greatest?

- A. 300, 0,  $-200$ ,  $-250$
- B.  $-250$ ,  $-200$ , 0, 300
- C. 0,  $-200$ ,  $-250$ , 300
- D.  $-200$ ,  $-250$ , 300, 0

For Exercises 6–8, find each Math Fever team's score. Write a number sentence for each team. Assume that each team starts with 0 points.

6. **Protons**

| Point Value | Answer    |
|-------------|-----------|
| 250         | Correct   |
| 100         | Correct   |
| 200         | Correct   |
| 150         | Incorrect |
| 200         | Incorrect |

7. **Neutrons**

| Point Value | Answer    |
|-------------|-----------|
| 200         | Incorrect |
| 50          | Correct   |
| 250         | Correct   |
| 150         | Incorrect |
| 50          | Incorrect |

8. **Electrons**

| Point Value | Answer    |
|-------------|-----------|
| 50          | Incorrect |
| 200         | Incorrect |
| 100         | Correct   |
| 200         | Correct   |
| 150         | Incorrect |

# Connections

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- 56.** In a football game, one team makes seven plays in the first quarter. The results of those plays are (in order): gain of 7 yards, gain of 2 yards, loss of 5 yards, loss of 12 yards, gain of 16 yards, gain of 8 yards, loss of 8 yards.
- a.** What is the overall gain (or loss) from all seven plays?
  - b.** What is the average gain (or loss) per play?

78. At the start of December, Kenji had a balance of \$595.50 in his checking account. The following is a list of transactions he made during the month.

| Date        | Transaction                                     | Balance  |
|-------------|---|----------|
| December 1  |   | \$595.50 |
| December 5  | Writes a check for \$19.95                      |          |
| December 12 | Writes a check for \$280.88                     |          |
| December 15 | Deposits \$257.00                               |          |
| December 17 | Writes a check for \$58.12                      |          |
| December 21 | Withdraws \$50.00                               |          |
| December 24 | Writes checks for \$17.50, \$41.37, and \$65.15 |          |
| December 26 | Deposits \$100.00                               |          |
| December 31 | Withdraws \$50.00                               |          |

- Copy and complete the table.
- What was Kenji's balance at the end of December?
- When was his balance the greatest? When was his balance the least?