

## 3.1 Practice A

17. Twenty-five students go to lunch. Pizza costs \$3 and sandwiches cost \$2. Twelve students buy pizza. What is the total amount of money spent on sandwiches?
18. Each student in your class must do 14 homework problems. There are 23 students in the class. How many problems will your teacher have to grade?
19. A summer job pays \$5 per hour.
  - a. You work for 12 hours. How much do you make?
  - b. After working 24 hours, do you have enough money to buy an MP3 player that costs \$100?
20. You can read 52 pages per hour.
  - a. You read for an hour and a half. How many pages have you read?
  - b. You must read 130 pages for homework. Can you complete the assignment in two hours? Explain your reasoning.
14. On a field trip, your class stops to get ice cream cones. Each cone costs \$3. There are 68 students in your class. How much will the ice cream cones cost?
15. You earn money by washing windows at \$14 per house or washing cars at \$5 per car. How many cars would you have to wash to make the same amount for washing windows at 10 houses?
16. Your basketball team made 10 three-pointers, 8 two-point field goals, and 12 one-point foul shots. Your opponents made 8 three-pointers, 12 two-point field goals, and 11 one-point foul shots. Who won? By how many points did they win?
17. There are 46 legs in a zoo exhibit. Every animal has either two or four legs.
  - a. List two possible choices for the number of each type of animal in the exhibit.
  - b. The number of two-legged animals is 2 more than the number of four-legged animals. How many of each are in the exhibit?
  - c. The number of legs in the exhibit increases by 4. What might account for this increase?



Match each expression on the left to the equivalent expression on the right.

- |   |  |
|---|--|
| 1) $(3b)(2c)(3r)$                           | A) $54b$                                   |
| 2) $9bcr$                                   | B) $12bc$                                  |
| 3) $20bcr$                                  | C) $8bc$                                   |
| 4) $(4bc)(2r)$                              | D) $6bc$                                   |
| 5) $20bc$                                   | E) $3 \times 3 \times b \times c \times r$ |
| 6) $(3b)(2c)$                               | F) $(3b)(2)$                               |
| 7) $2 \times 2 \times 3 \times b \times c$  | G) $5bc \times 4r$                         |
| 8) $6b$                                     | H) $8bc$                                   |
| 9) $4b \times 2c$                           | I) $5 \times 2 \times b$                   |
| 10) $75b$                                   | J) $18bcr$                                 |
| 11) $2 \times 4 \times b \times c$          | K) $(5bc)(4)$                              |
| 12) $10b$                                   | L) $5 \times 5 \times 3 \times b$          |
| 13) $2 \times 3 \times 3 \times 3 \times b$ | M) $8bcr$                                  |

Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
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8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_