

## Module 4 Topic D Lessons 9-10 Student Copy

### Classwork Exercises

1. Write an expression to show the sum of 7 and 1.5.
2. Write two expressions to show  $w$  increased by 4. Then, draw models to prove that both expressions represent the same thing.
3. Write an expression to show the sum of  $a$ ,  $b$ , and  $c$ .
5. Write an expression to show the difference of 3 and  $p$ .
6. Write an expression to show 4 less than the sum of  $g$  and 5.
7. Write an expression to show 4 decreased by the sum of  $g$  and 5.

Expand or simplify the following problems

d.  $5 \times m \times 3 \times p$

e.  $1 \times g \times w$

c.  $12g$

d.  $3h \cdot 8$

e.  $7g \cdot 9h$

b. Multiply  $3de \cdot 9yz$ .

c. Double the product of  $6y$  and  $3bc$ .

## Homework

### Problem Set

1. Write two expressions to show a number increased by 11. Then, draw models to prove that both expressions represent the same thing.
2. Write an expression to show the sum of  $x$  and  $y$ .
3. Write an expression to show  $h$  decreased by 13.
4. Write an expression to show  $k$  less than 3.5.
5. Write an expression to show the sum of  $g$  and  $h$  reduced by 11.
6. Write an expression to show 5 less than  $y$ , plus  $g$ .
7. Write an expression to show 5 less than the sum of  $y$  and  $g$ .

### Problem Set

1. Rewrite the expression in standard form (use the fewest number of symbols and characters possible).
  - a.  $5 \cdot y$
  - b.  $7 \cdot d \cdot e$
  - c.  $5 \cdot 2 \cdot 2 \cdot y \cdot z$
  - d.  $3 \cdot 3 \cdot 2 \cdot 5 \cdot d$
2. Write the following expressions in expanded form.
  - a.  $3g$
  - b.  $11mp$
  - c.  $20yz$
  - d.  $15abc$
3. Find the product.
  - a.  $5d \cdot 7g$
  - b.  $12ab \cdot 3cd$