

1.3**Challenge Practice**

For use with pages 16-21

Evaluate the expression when $x = 7$, $y = x - 4$, and $z = y(x + 13)$.

1. $2yx^2 \div 6x$

2. $\frac{xz}{30} + \frac{y^3 - 3x}{z \div 10}$

Insert parentheses to make the statement true.

3. $4^2 \times 13 - 9 \div 32 + 4 = 6$

4. $12 - 7 \times 6 + 19 - 14 = 111$

In Exercises 5 and 6, insert an operation symbol for *addition*, *subtraction*, *multiplication*, or *division* in each blank to make the statement true.

5. $90 \underline{\quad ? \quad} (3 \underline{\quad ? \quad} 7) \underline{\quad ? \quad} 3 \underline{\quad ? \quad} 2 = 15$

6. $4 \underline{\quad ? \quad} 10^2 \underline{\quad ? \quad} 1000 \underline{\quad ? \quad} 5 \underline{\quad ? \quad} 4 = 204$

7. Emily's school is 800 meters from her house. She walks halfway home when she sees Kerrie behind her. Emily turns around and walks back 80 meters to meet her. The two girls cover one-third of the remaining distance to Emily's house when Dustin yells to them from 60 meters behind. They walk back half that distance to meet him. How far is Emily from her house now? Write and solve an expression to get your answer.