

1.30

Order of Operations: Problem Type 2

• Example 1

Evaluate $3 \times (4 + 5)$.

$$3 \times (4 + 5) = 3 \times 9 = 27$$

• • • CHECK YOURSELF 1

Evaluate.

$$(2 + 5) \times 4$$

• Example 2

(a) Evaluate $(12 - 5) \times 6$.

$$(12 - 5) \times 6 = 7 \times 6 = 42$$
 Perform the subtraction in the parentheses as the first step.

(b) Evaluate $(8 + 3) \times 4 + 3$.

$$\begin{aligned} (8 + 3) \times 4 + 3 &= \underbrace{11 \times 4} + 3 \\ &= 44 + 3 = 47 \end{aligned}$$
 Add $8 + 3$ to get 11 as the first step. Then multiply 11×4 . As the final step, we add 3.

• • • CHECK YOURSELF 2

Evaluate.

$$5 \times (8 - 3)$$

• • • CHECK YOURSELF ANSWERS

1. 28. 2. 25.

1.30 Exercises

Name _____

Section _____

Date _____

A N S W E R S

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

Evaluate.

1. $20 \times (6 - 5)$

2. $8 \times (7 + 2)$

3. $9 \times (4 + 3)$

4. $7 \times (9 - 5)$

5. $5 \times (3 + 4)$

6. $7 \times (6 + 8)$

7. $5 \times (4 - 2)$

8. $6 \times (5 - 2)$

9. $9 \times (8 + 5)$

10. $6 \times (6 - 1)$

11. $3 \times (8 + 7)$

12. $8 \times (5 + 7)$

13. $9 \times (9 - 7)$

14. $3 \times (9 + 8)$