

# SOLUTIONS

## Order of Operations (A) Answers

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Solve each expression using the correct order of operations.

$$\begin{aligned} & (-5)^2 - 4 \times (6 \div ((-7) + 8)) \times 3 \\ & = (-5)^2 - 4 \times (6 \div 1) \times 3 \\ & = (-5)^2 - 4 \times 6 \times 3 \\ & = 25 - 4 \times 6 \times 3 \\ & = 25 - 24 \times 3 \\ & = 25 - 72 \\ & = -47 \end{aligned}$$

$$\begin{aligned} & ((-9) + 7)^3 \times (-5) \div ((4 - (-6)) \times 2) \\ & = (-2)^3 \times (-5) \div ((4 - (-6)) \times 2) \\ & = (-2)^3 \times (-5) \div (10 \times 2) \\ & = (-2)^3 \times (-5) \div 20 \\ & = (-8) \times (-5) \div 20 \\ & = 40 \div 20 \\ & = 2 \end{aligned}$$

$$\begin{aligned} & (2^2 \times (6 - 9)) \div 3 + (-4)^2 \\ & = (2^2 \times (-3)) \div 3 + (-4)^2 \\ & = (4 \times (-3)) \div 3 + (-4)^2 \\ & = (-12) \div 3 + (-4)^2 \\ & = (-12) \div 3 + 16 \\ & = (-4) + 16 \\ & = 12 \end{aligned}$$

$$\begin{aligned} & ((-7) + 7) \div (-9)^2 \times (8 - (-3)^2) \\ & = 0 \div (-9)^2 \times (8 - (-3)^2) \\ & = 0 \div (-9)^2 \times (8 - 9) \\ & = 0 \div (-9)^2 \times (-1) \\ & = 0 \div 81 \times (-1) \\ & = 0 \times (-1) \\ & = 0 \end{aligned}$$

$$\begin{aligned} & ((-7) + 9 - 7)^2 \times (5 \div (-5))^2 \\ & = (2 - 7)^2 \times (5 \div (-5))^2 \\ & = (-5)^2 \times (5 \div (-5))^2 \\ & = (-5)^2 \times (-1)^2 \\ & = 25 \times (-1)^2 \\ & = 25 \times 1 \\ & = 25 \end{aligned}$$

$$\begin{aligned} & ((-3) \times (10 + (-7)))^2 \div 3 - (-9)^2 \\ & = ((-3) \times 3)^2 \div 3 - (-9)^2 \\ & = (-9)^2 \div 3 - (-9)^2 \\ & = 81 \div 3 - (-9)^2 \\ & = 81 \div 3 - 81 \\ & = 27 - 81 \\ & = -54 \end{aligned}$$