ORDER OF OPERATIONS

Example: $\{[3 \times (-2 + 3)] \times (-5)\} + 2^3$

$= \{[3 \times 1] \times (-5)\} + 2^3$

$= \{3 \times (-5)\} + 2^3$

$= -15 + 2^3$

$= -15 + 8$

$= \mathbf{-7}$

Solve each expression.

1) $15 \div (-3) \times \{[(-3 + 2) \times (-1)] + 4\}$

2) $[(-2) \times (-5)] + [(-49) \div (-7)]$

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3) $\{[(-4) \div 2^2] + (-5)\} \times (-6)$

4) $17 - \{(-4) \times [64 \div 4^2]\}$

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5) $\{(-2) \div 2\} \times [16 \div (-8)]$

6) $(-15) \times 4 - \{-3 + 9\}$

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7) $[8^2 \div (-2^3)] - \{(-14) - (-18)\}$

8) $\{[(-11 + 10) \times 3^2] + (-4)^3\} + 9^2$

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ORDER OF OPERATIONS

Answer key

Example: $\{[3 \times (-2 + 3)] \times (-5)\} + 2^3$

$= \{[3 \times 1] \times (-5)\} + 2^3$

$= \{3 \times (-5)\} + 2^3$

$= -15 + 2^3$

$= -15 + 8$

$= \textbf{-7}$

Solve each expression.

1) $15 \div (-3) \times \{[(-3 + 2) \times (-1)] + 4\}$

−25

2) $[(-2) \times (-5)] + [(-49) \div (-7)]$

17

3) $\{[(-4) \div 2^2] + (-5)\} \times (-6)$

36

4) $17 - \{(-4) \times [64 \div 4^2]\}$

33

5) $\{(-2) \div 2\} \times [16 \div (-8)]$

2

6) $(-15) \times 4 - \{-3 + 9\}$

−66

7) $[8^2 \div (-2^3)] - \{(-14) - (-18)\}$

−12

8) $\{[(-11 + 10) \times 3^2] + (-4)^3\} + 9^2$

8