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

_____

2) $\{(-15) \times (-3) + (24 \div 6)\} + (-4)$

_____

3) $14 - \{19 - [(-8) - (-11)] \times 2\}$

_____

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

_____

5) $\{(-2) \times (-72) \div (-8)\} - 8^2$

_____

6) $(-39) \div \{[(-2 + 3) \times 4] + 9\}$

_____

7) $49 + \{[(-4) \div 2] - (-11)\}$

_____

8) $\{7 - [15 + (-3^2) \times (-4)]\} + (-5)^3$

_____

ORDER OF OPERATIONS

Answer key

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

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

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

$= -15 + 2^3$

$= -15 + 8$

$= \mathbf{-7}$

Solve each expression.

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

24

2) $\{(-15) \times (-3) + (24 \div 6)\} + (-4)$

45

3) $14 - \{19 - [(-8) - (-11)] \times 2\}$

1

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

−12

5) $\{(-2) \times (-72) \div (-8)\} - 8^2$

−82

6) $(-39) \div \{[(-2 + 3) \times 4] + 9\}$

−3

7) $49 + \{[(-4) \div 2] - (-11)\}$

58

8) $\{7 - [15 + (-3^2) \times (-4)]\} + (-5)^3$

−169