ORDER OF OPERATIONS

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

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

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

= $-15 + 2^3$

= $-15 + 8$

= **−7**

Solve each expression.

1) $(-12) \div (-3) + \{(2^3 + 4) \div (-2^2)\}$

_____

2) $\{6 - [5 \times (-7) + (18 \div 6)]\} - (-11)$

_____

3) $-5^3 + \{(-3) \times (-9)\} - 2$

_____

4) $(-48) \div \{[(-5 + 3) \times (-4)] + (-7)\}$

_____

5) $-20 \times (-3) + [5 \times 8 + (-9)]$

_____

6) $\{[38 \div (-2)] + (-20)\} - 4^2$

_____

7) $17 + (-5) - \{(-2) \times (-3)\}$

_____

8) $(-2) \times (-6) - \{3^3 - (-5)\}$

_____

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) $(-12) \div (-3) + \{(2^3 + 4) \div (-2^2)\}$

1

2) $\{6 - [5 \times (-7) + (18 \div 6)]\} - (-11)$

49

3) $-5^3 + \{(-3) \times (-9)\} - 2$

−100

4) $(-48) \div \{[(-5 + 3) \times (-4)] + (-7)\}$

−48

5) $-20 \times (-3) + [5 \times 8 + (-9)]$

91

6) $\{[38 \div (-2)] + (-20)\} - 4^2$

−55

7) $17 + (-5) - \{(-2) \times (-3)\}$

6

8) $(-2) \times (-6) - \{3^3 - (-5)\}$

−20