Order of Operations

Quick Review

At Home
At School

To make sure everyone gets the same answer when solving an expression, we use this order of operations:

- Do the operations in brackets.
- Multiply and divide, in order, from left to right.
- Then add and subtract, in order, from left to right.

➤ Solve: $12 + 20 \div 5$
$12 + 20 \div 5$

$= 12 + 4$
$= 16$

➤ Solve: $9 \times (6 - 4)$
$9 \times (6 - 4)$

$= 9 \times 2$
$= 18$

➤ Solve: $25 - 4 + 6$
$25 - 4 + 6$

$= 21 + 6$
$= 27$

Try These

1. Solve each expression.
Use the order of operations.

a) $15 + 7 \times 2 = $ _____

b) $34 - 6 \div 3 = $ _____

c) $35 + 15 \times 2 = $ _____

d) $30 \div (2 + 3) = $ _____

e) $44 \div 11 + 4 = $ _____

f) $(14 \div 7) \times 4 = $ _____

g) $24 + (16 \div 8) = $ _____

h) $(17 + 2) - 14 = $ _____

i) $3 \times 9 - 4 = $ _____

2. Use mental math to solve.

a) $2 \times 9 - 3 + 4 = $ _____

b) $5 + 150 \div 25 = $ _____

c) $30 + 30 \div 6 = $ _____

d) $(8 \times 9) - (8 \times 8) = $ _____

e) $24 \div 12 \times 9 = $ _____

f) $(200 + 400) \times 2 = $ _____

g) $18 \div 2 \times 2 = $ _____

h) $4 \times (3 \times 5) = $ _____

i) $12 + 6 - 2 = $ _____

j) $(50 + 100) \times 2 - 100 = $ _____

1. Solve each expression.

   a) 48 ÷ 12 ÷ 2 = _____   **b)** 8 × (10 − 4) = _____   **c)** 28 − 12 ÷ 4 = _____

   d) 7 × (3 + 2) = _____   **e)** 16 ÷ 2 × 9 = _____   **f)** 15 ÷ (3 × 5) = _____

2. Use brackets to make each number sentence true.

   a) 2 × 3 + 6 = 18   **b)** 20 × 15 − 2 = 260

   c) 5 + 4 ÷ 3 = 3   **d)** 12 + 10 ÷ 11 = 2

   e) 6 + 8 ÷ 2 = 10   **f)** 5 × 4 ÷ 2 = 10

3. Write a number sentence to show the order of operations you use to solve each problem.

   a) Sandar bought 4 bags of chips at $2.99 each.
   She used a $2.00 coupon to pay part of the cost.
   How much did Sandar pay for the chips?

   _____

   b) The decorating committee needs 3 balloons for each of 15 tables.
   They also need 20 balloons for each of the 4 walls of the room.
   How many balloons does the committee need?

   _____

Stretch Your Thinking

You and 3 friends order a pizza, 4 large drinks, and a loaf of cheese bread.
You split the cost evenly with your friends.
What order of operations would you use to find out
how much each person should pay?

_____

_____

_____