



Order of Operations Practice

1. Evaluate each of the following expressions. Show all your work and clearly indicate the order of operation in each step.

a) $3 + 4 \times 2$

b) $5 - 2 \times (-3)^2$

c) $2 \times (4^2 + 1) - 3$

d) $(6 + 2)^2 \div 4 - 5$

e) $12 \div 4 + 2 \times (-2)^3$

f) $(-5) \times (2^2 + 3) - (-4) \times 2$

g) $(18 \div (-2)) \times (6 - 3)^2 + 2$

h) $7 - 2^3 - (-4) \times 2$

i) $(4^2 \div 2) + (3 \times 2) - 5$

j) $3 \times (6 - 4)^2 + 5$

Math 8
Integers –Order of Operations



k) $(2^4 \div 4)(3 + 2) - (-1)$

l) $(9 + 2)(8 - 3)^2 - 4$

m) $(10 \div 2) \times (4 - (-2))^2 + 6$

n) $(15 \div 3) + 2(6 - 3)^2$

o) $24 \div (-2)^3 \times 3 - 2$

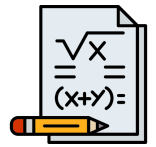
p) $5(2 + 4)^2 - 3 \times 2$

q) $(20 \div 4) \times (5 - 2)^2 + 1$

r) $(8 - 3)(7 - 4)^2 - 2^2$

s) $15 \div (3 \times 2) + 2^3$

t) $30 \div (4 + 2)^2 - 1$



2. What is the numerical expression for the phrases?
- Two times the result of subtracting seven from 15.
 - The sum of 4 and 8 divided by two.
3. Write an expression to solve this problem and then evaluate it to find the answer to the problem.
- Dennis has 45 cars in his model car collection. He has 10 convertibles and twice as many sports cars as convertibles. The rest of the cars are luxury cars. How many luxury cars does he have in his collection?
 - Rani has 5 packages of pens. Each package has 4 blue pens and 6 black pens in it. She wants to put the pens in two boxes with the same number in each box. How many pens will be in each box?