

Name: _____

Date: _____

Learning Goal 2.3	I can evaluate an expression using order of operations with powers and applying exponent laws.
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B	rackets
E	xponents
D	ivision
M	ultiplication
A	ddition
S	ubtraction

read left to right

read left to right

Example Evaluate the following expressions. Show all your work.

a. $(3+6) - 8 \times 3 \div 24 + 5$

$$= 9 - 8 \times 3 \div 24 + 5$$

$$= 9 - 24 \div 24 + 5$$

$$= 9 - 1 + 5$$

$$= 8 + 5$$

$$= 13$$

b. $8(5+2)^2 - 12 \div 2^2$

$$= 8(7)^2 - 12 \div 2^2$$

$$= 8(49) - 12 \div 2^2$$

$$= 8(49) - 12 \div 4$$

$$= 392 - 12 \div 4$$

$$= 392 - 3$$

$$= 389$$

c. $-2(-15-4^2) + 4(2+3)^3$

$$= -2(-15-16) + 4(2+3)^3$$

$$= -2(-31) + 4(2+3)^3$$

$$= -2(-31) + 4(5)^3$$

$$= -2(-31) + 4(125)$$

$$= 62 + 4(125)$$

$$= 62 + 500$$

$$= 562$$

