

BE - Geometry 1

FRIDAY 8-13-10

- ① DEFINE AN AXIOM.
 - ② DEFINE A THEOREM.
 - ③ WHAT ARE EUCLID'S TOOLS?
 - ④ WHAT IS THE TITLE OF EUCLID'S GEOMETRY BOOK?
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• FORMS?

ANS

- ① AN ASSUMPTION. ② PROVEN STATEMENT.
- ③ UNMARKED STRAIGHTEDGE AND COMPASS
- ④ ELEMENTS

ORDER OF Operations

PE (M[→]D) (A[→]S)

Common Grouping Symbols ⇒ BOXES
(EACH creates a "baby" PE(M[→]D)(A[→]S) problem)

(x) PARENTHESES

[x] BRACKETS

{x} BRACES

|x| ABSOLUTE VALUE

\sqrt{x} RADICAL

$\frac{x}{y}$ FRACTION BAR

$$\textcircled{\text{EX}} \frac{[(2x^2y^8z)(2y)]}{[(2x^2y^8z)(2y)]} = 1$$

Practice - Order of Operations - Classwork

Evaluate each expression.

1) $-\frac{8}{(-2) + 6 - 6}$

2) $\frac{3 + 8 - 5}{3}$

3) $\frac{(-9) - ((-1) + 2)}{-5}$

4) $\left(\frac{4}{-2}\right)(-1) + 2$

5) $(-6)(2) - 5 - 5$

6) $(-4)(-3) + (-5) - (-2)$

7) $2 + 3 + (-5) + 4 + 3 + 4$

8) $5 + \frac{10}{(-5)(-1)} - 2 + 4$

9) $\frac{1}{6} + \frac{1}{4} - ((-1) - (-2))$

10) $2 - \frac{9}{5} - \left(\left(-1\frac{1}{2}\right) - 2\right)$

11) $(-3)\left(\frac{18}{|1 - 4|}\right)$

12) $\left(-\frac{8}{7 - 5 - 6}\right)(-2)$

13) $(2)\left(\frac{25}{|(-5) + 10|}\right)$

14) $\frac{23 + 3 - (4)(2)}{9}$

Evaluate each using the values given.

15) $(x)\left(2 + \frac{z}{2} - y\right)$; use $x = 8$, $y = 10$, and $z = 2$

16) $\left(\frac{n}{4}\right)^2 + m - p$; use $m = -9$, $n = 4$, and $p = -9$

17) $(x)(y + 5) + xy$; use $x = 5$, and $y = 4$

18) $(q)(1 - (p + 6)) - 6$; use $p = -7$, and $q = 10$

Answers to Practice - Order of Operations - Classwork

1) 4

5) -22

9) $-\frac{7}{12}$

13) 10

17) 65

2) 2

6) 9

10) $\frac{37}{10}$

14) 2

18) 14

3) 2

7) 11

11) 18

15) -56

4) 4

8) 9

12) -4

16) 1

Homework?

① PE (\vec{mD}) (\vec{AS}) WORKSHEET (18 problems)

② original problems



WORK

ANSWER

Can check with calculator.

③ Forms

④ Supplies