

# Pre-Algebra Review Order of Operations

Name Key

## Order of Operations -- PEMDAS Practice Worksheets

Assignment  
#2

Remember, PEMDAS (Please Excuse My Dear Aunt Sally) stands for:

Parentheses

Exponents

Multiplication

Division

Addition

Subtraction

Left to right

Required: Right Column

Optional: Left Column

1.  $14 + 18 \div 2 \times 18 - 7$

169

$$14 + 9 \times 18 - 7$$

$$14 + 162 - 7$$

2.  $15 \times 18 + 12 \div 3 + 9$

283

$$270 + 4 + 9$$

$$274 + 9$$

3.  $8 \times 4 + 9 - 9 + 18$

50

$$32 + 9 - 9 + 18$$

$$41 - 9 + 18$$

$$32 + 18$$

4.  $11 \times 11 - 6 \times 17 + 4$

23

$$121 - 102 + 4$$

$$19 + 4$$

5.  $2 - 1 + 5 \times 4 \times 11$

221

$$2 - 1 + 20 \times 11$$

$$2 - 1 + 220$$

$$221$$

6.  $16 \times 7 \times 15 + 11 + 17$

1708

$$112 \times 15 + 11 + 17$$

$$1680 + 11 + 17$$

$$1708$$

7.  $10 - 9 \times 24 \div 8 \times 6$

-152

$$10 - 216 \div 8 \times 6$$

$$10 - 27 \times 6$$

$$10 - 162$$

8.  $10 \div 5 + 10 - 9 \times 11$

-87

$$2 + 10 - 99$$

$$12 - 99$$

9.  $3 \times 19 \times 14 + 18 \div 2$

807

$$57 \times 14 + 18 \div 2$$

$$798 + 9$$

10.  $10 \times 12 - 14 \div 2 + 15$

128

$$120 - 7 + 15$$

$$113 + 15$$

11.  $14 \div 2 - 1 + 3$

9

$$7 - 1 + 3$$

$$6 + 3$$

12.  $9 + 15 \div 5 \times 13$

48

$$9 + 3 \times 13$$

$$9 + 39$$

13.  $12 \div 3 \times 12 + 10$

$\boxed{58}$   $4 \times 12 + 10$   
 $48 + 10$

14.  $16 \times 15 \div 5 + 12$

$\boxed{60}$   $240 \div 5 + 12$   
 $48 + 12$

15.  $2 \times 10 + 10 - 8$

$\boxed{22}$   $20 + 10 - 8$   
 $30 - 8$

16.  $24 \div 4 + 14 \times 2$

$\boxed{34}$   $6 + 28$

17.  $11 \times 10 - 12 \div 3$

$\boxed{106}$   $110 - 4$   
 $106$

18.  $8 \div 4 \times 2 + 18$

$\boxed{22}$   $2 \times 2 + 18$   
 $4 + 18$

19.  $18 \div 6 + 4 \times 15$

$\boxed{63}$   $3 + 60$   
 $63$

20.  $2 - 20 \div 5 \times 3$

$\boxed{-10}$   $2 - 4 \times 3$   
 $2 - 12$

21.  $(6 + 4)^2 + (11 + 10 \div 2)$

$\boxed{116}$   $10^2 + (11 + 5)$   
 $100 + 16$   
 $116$

22.  $(11 + 42 - 5) \div (11 - 4)$

$(53 - 5) \div (7)$   
 $48 \div 7 \rightarrow \frac{48}{7} \text{ OR } 6\frac{6}{7} \text{ OR } \approx 6.9$

23.  $(17 - 3) \times (14 - 6) - 22$

$14 \times 8 - 22$   
 $112 - 22 \rightarrow \boxed{90}$

24.  $(9 + 33 - 6) \div 6 - 3^2$

$(42 - 6) \div 6 - 9$   
 $36 \div 6 - 9 \rightarrow \boxed{-3}$   
 $6 - 9$

25.  $(10 + 43 - 5) \div 6 + 5^2$

$(53 - 5) \div 6 + 25$   
 $48 \div 6 + 25 \rightarrow \boxed{33}$   
 $8 + 25$

26.  $2 \times (9 \times 5 + 3^2) + 4$

$2 \times (45 + 9) + 4$   
 $2 \times (54) + 4$   
 $108 + 4 \rightarrow \boxed{112}$

27.  $(6 + 3)^2 + (9 - 10 \div 5)$

$9^2 + (9 - 2)$   
 $81 + (7)$   
 $\boxed{88}$

28.  $(10 + 59 - 3^2) \div (24 - 4)$

$(69 - 9) \div (20)$   
 $60 \div 20$   
 $\boxed{3}$

29.  $4 \times (12 \times 6 - 4^2) + 9$

$4 \times (72 - 16) + 9$   
 $4 \times 56 + 9$   
 $224 + 9$   
 $\boxed{233}$

30.  $(19 - 8) \times (10 + 4) + 8^2$

$11 \times 14 + 64$   
 $154 + 64$   
 $\boxed{218}$

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} Left to right

1.  $14 + 18 \div 2 \times 18 - 7$

7.  $10 - 9 \times 24 \div 8 \times 6$

2.  $15 \times 18 + 12 \div 3 + 9$

8.  $10 \div 5 + 10 - 9 \times 11$

3.  $8 \times 4 + 9 - 9 + 18$

9.  $3 \times 19 \times 14 + 18 \div 2$

4.  $11 \times 11 - 6 \times 17 + 4$

10.  $10 \times 12 - 14 \div 2 + 15$

5.  $2 - 1 + 5 \times 4 \times 11$

11.  $14 \div 2 - 1 + 3$

6.  $16 \times 7 \times 15 + 11 + 17$

12.  $9 + 15 \div 5 \times 13$

13.  $12 \div 3 \times 12 + 10$

22.  $(11 + 42 - 5) \div (11 - 4)$

14.  $16 \times 15 \div 5 + 12$

23.  $(17 - 3) \times (14 - 6) - 22$

15.  $2 \times 10 + 10 - 8$

24.  $(9 + 33 - 6) \div 6 - 3^2$

16.  $24 \div 4 + 14 \times 2$

25.  $(10 + 43 - 5) \div 6 + 5^2$

17.  $11 \times 10 - 12 \div 3$

26.  $2 \times (9 \times 5 + 3^2) + 4$

18.  $8 \div 4 \times 2 + 18$

27.  $(6 + 3)^2 + (9 - 10 \div 5)$

19.  $18 \div 6 + 4 \times 15$

28.  $(10 + 59 - 3^2) \div (24 - 4)$

20.  $2 - 20 \div 5 \times 3$

29.  $4 \times (12 \times 6 - 4^2) + 9$

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30.  $(19 - 8) \times (10 + 4) + 8^2$