

PRACTICE

$$\begin{array}{r} 1500 \\ \times 0.5 \\ \hline \end{array}$$

1

$$\begin{array}{r} 3000. \\ 5 \overline{) 15000.} \\ \underline{15} \\ 0 \end{array}$$

3000

PRACTICE

1500

0.5 *000*

15000 =

5 (*moved 1 place*)

= 3000

0.75

0.0025



PRACTICE

1500

0.5

0.75 ²
0.0025 ₂

15000 =

5 (moved 1 place)

= 3000

300
25 $\overline{) 7500}$
300

$$\begin{array}{r} 181.6 \\ \hline 0.4 \end{array} \quad \begin{array}{l} \swarrow 4 \\ \swarrow 1 \end{array}$$

$$\boxed{454}$$

$$500$$

$$\begin{array}{r} 454 \\ \hline 4 \overline{) 1816} \\ \underline{16} \\ 21 \\ \underline{20} \\ 16 \end{array}$$

$$\begin{array}{r} 1.0064 \\ \hline 0.48210 \end{array}$$

Diagram showing a subtraction problem. The number 1.0064 is written above a horizontal line, and 0.48210 is written below it. A circled '5' is positioned above the line, with an arrow pointing to the first digit after the decimal point in 1.0064 (the '0'). Another circled '5' is positioned below the line, with an arrow pointing to the first digit after the decimal point in 0.48210 (the '4').

$$\begin{array}{r} 2.0875337 \end{array}$$

Diagram showing a number 2.0875337. Above the digits 0, 8, 7, and 5 are small checkmarks. A vertical line is drawn after the digit 5.

$$\begin{array}{r} 000002.087 \\ \hline 48210 \overline{) 100640.} \\ \underline{96420} \\ 422000 \\ \underline{385680} \\ 363200 \end{array}$$

Diagram showing a long division problem. The divisor is 48210 and the dividend is 100640. The quotient is 2.087. The remainder is 363200. The numbers 000002.087 and 2.0875 are written above the division line. The number 2.0875 is also written to the right of the division line.

- 
- PEMDAS - "Please Excuse (My Dear) Aunt Sally"

<http://www.mathsisfun.com/operation-order-pemdas.html>

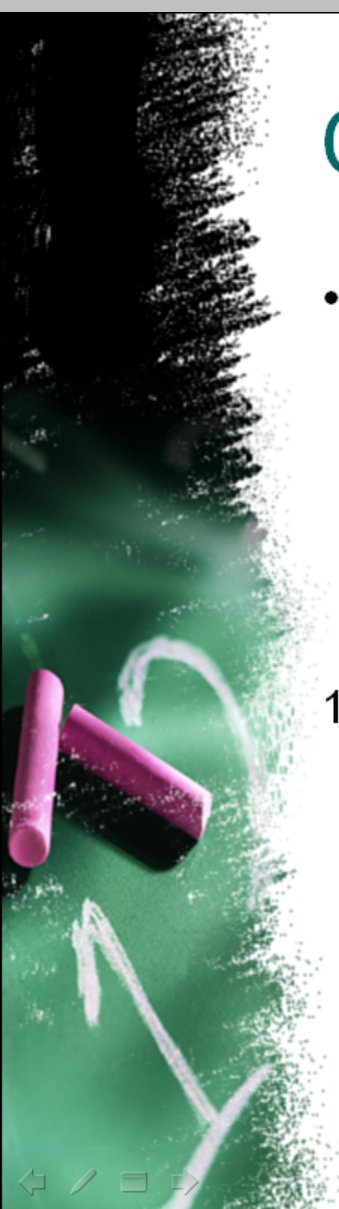
- M&D rank equally, so go L to R
- A&S rank equally, so go L to R

Order of Operation

- **Third Rule:**

- *Simplification - Work inside outside*

- Parenthesis ()
- Brackets []
- Braces { }


$$194 - \{ [20 \times (9-5)] + 14 \} = 194 - \{ [20 \times 4] + 14 \}$$

Testing your Calculator

- $7+5*3-2^4\div 4$
 - *If the answer is 18, your calculator uses the appropriate order of operations.*

Testing your Calculator

- $7+5*3-2^4\div 4$
 - *If the answer is 18, your calculator uses the appropriate order of operations.*

$$2^4 = 16 \div 4 = 4$$
$$5 \times 3 = 15 + 7 = 22$$

$$22 - 4 = 18$$

PRACTICE

$$10 + 25 = 35$$

$$100 - \{[10 \times (6 - 5)] + 25\} = \underline{65}$$

$$\bullet 1289 - \{[120 \times (23 - 13)] + 4\} = \underline{\hspace{2cm}}$$

$$\bullet 82 - [34 \times (33 - 13)] + 76 = \underline{\hspace{2cm}}$$

PRACTICE

$$100 - \{[10 \times (6 - 5)] + 25\} = \underline{65}$$

$$1289 - \{[120 \times (23 - 13)] + 4\} = \underline{285}$$

Handwritten notes: 1000, 120 x 10 = 1200

$$82 - [34 \times (33 - 13)] + 76 = \underline{\hspace{2cm}}$$

$$23 - 13 = 10$$

$$\begin{array}{r} 120 \times 10 = 1200 \\ \hline 2 \quad 400 \end{array}$$

$$\begin{array}{r} 1289 \\ 1000 + 4 = 1004 \\ \hline 285 \end{array}$$

$$1289 - \{[120 \times (23 - 13)] + 4\} = \underline{\hspace{2cm}}$$

- $82 - [34 \times (33 - 13)] + 76 = \underline{\hspace{2cm}}$

$$33 - 13 = 20$$

$$\begin{array}{r} 34 \times 20 = \cancel{680} \\ 700 \end{array}$$

$$-618 + 76 = 542$$

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WORKING WITH DECIMALS

1. 1.2883 + 32.45 =

2. 0.38745 + 625.985 =

3. 4.13 - 3.064 =

4. 253.9 - 43.101 =

5. 8.7 X 0.003 =

Handwritten calculations:

$$\begin{array}{r} 1.2883 \\ 32.45 \\ \hline 33.7383 \\ 33.74 \end{array}$$

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WORKING WITH DECIMALS

1. $1.2883 + 32.45 =$

2. $0.38745 + 625.985 =$

3. $4.13 - 3.064 =$

4. $253.9 - 43.101 =$

5. $8.7 \times 0.003 =$

Handwritten calculations:

0.38745
625.985

626.37245
626.372

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WORKING WITH DECIMALS

1. $1.2883 + 32.45 =$
2. $0.38745 + 625.985 =$
3. $4.\underline{13} - 3.\underline{064} =$
4. $253.9 - 43.101 =$
5. $8.7 \times 0.003 =$

Handwritten calculation for problem 3:

$$\begin{array}{r} 4.130 \\ - 3.064 \\ \hline 1.066 \\ \boxed{1.07} \end{array}$$

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2. $0.38745 + 625.985 =$

3. $4.13 - 3.064 =$

4. $253.9 - 43.101 =$

5. $8.7 \times 0.003 =$

6. $0.43 \times 4000 =$

7. $4800 / 0.12 =$

Handwritten calculation for problem 3:

$$\begin{array}{r} 4.130 \\ - 3.064 \\ \hline 1.066 \end{array}$$

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2. $0.38745 + 625.985 =$

3. $4.13 - 3.064 =$

4. $253.9 - 43.101 =$

5. $8.7 \times 0.003 =$

6. $0.43 \times 4000 =$

7. $4800 / 0.12 =$

8.7
x.003

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2. $0.38745 + 625.985 =$

3. $4.13 - 3.064 =$

4. $253.9 - 43.101 =$

5. $8.7 \times 0.003 =$

6. $0.43 \times 4000 =$

7. $4800 / 0.12 =$

Handwritten calculations:

28.7
x 3

86.1

0.261

0.261
x 0.003

0.000783

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5. $8.7 \times 0.003 =$

6. $0.43 \times 4000 =$

7. $4800 \div 0.12 =$

8. $0.88 \div 0.023 =$

Handwritten calculations:

For problem 6: $(.43) \times (4000)$

For problem 7:
$$\begin{array}{r} 43 \\ 4000 \\ \hline 172000 \end{array}$$

For problem 8:
$$\begin{array}{r} 20.00 \\ 2000 \text{ etc} \end{array}$$

WORKING WITH ORDER OF OPERATION

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7. $4800 \div 0.12 =$
 $\begin{array}{r} 2 \quad 2 \end{array}$

8. $0.88 \div 0.023$

$\begin{array}{r} 40.000 \\ 12 \overline{) 480.000} \\ \underline{48} \\ 0 \end{array}$

$\begin{array}{r} 41.826 \\ 23 \overline{) 880} \\ \underline{46} \\ 420 \\ \underline{460} \\ 600 \\ \underline{460} \\ 1400 \\ \underline{1380} \\ 200 \\ \underline{184} \\ 160 \\ \underline{155} \\ 50 \end{array}$

WORKING WITH ORDER OF OPERATION

1. $50 \times 5.0 - 30 =$

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7. $4800 / 0.12 =$

8. $0.88 / 0.023 =$

23 $\overline{) 880.0}$

69

190

184

60

46

140

138

2

38.26

38

WORKING WITH ORDER OF OPERATION

1. $50. \times 5.0 - 30 =$

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1. $(50. \times 5.0) - 30 =$
 $250 - 30 = 220$

2. $30 - (50. \times 5.0) =$
 $30 - 250 = -220$

3. $90 - \{[20. \times (8.0 - 5.0)] + 15\} =$

4. $128 - \{[12 \times (3.0 - 13)] + 18\} =$

5. $50 + 10 / 2 =$

6. $27 + 15 / 3 =$

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1. $50 \times 5.0 - 30 =$

2. $30 - 50 \times 5.0 =$

3. $90 - \{[20 \times (8.0 - 5.0)] + 15\} =$

4. $128 - \{[12 \times (3.0 - 13)] + 18\} =$

5. $50 + 10 / 2 =$

6. $27 + 15 / 3 =$

Handwritten calculations:

For problem 3: $90 - (60 + 15) = 90 - 75 = 15$

For problem 4: $3[0 - 13] = -39$, $12 \times -39 = -468$, $-468 - 18 = -486$

For problem 5: $50 + 5 = 55$

For problem 6: $27 + 5 = 32$

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5. $50 + 10 / 2 =$ $50 + 5 = 55$ $\frac{10}{2} = 5$

6. $27 + 15 / 3 =$

7. $342 - 9.0 \times 2.0 =$

8. $28 - [4.0 \times (22 - 11)] + 67 =$

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5. $50 + 10 / 2 =$

6. $27 + 15 / 3 =$

7. $342 - 9.0 \times 2.0 =$

8. $28 - [4.0 \times (22 - 11)] + 67 =$

$\frac{15}{3} = 5$

$27 + 5 = 32$

$9.0 \times 2.0 = 18$
 $342 - 18 = 324$

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5. $50 + 10 / 2 =$

6. $27 + 15 / 3 =$

7. $342 - 9.0 \times 2.0 =$

8. $28 - [4.0 \times (22 - 11)] + 67 =$

Handwritten calculations:

$22 - 11 = 11$

$4.0 \times 11 = 44$

$(28 - 44) + 67$

$-16 + 67$

51

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