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handwriting – memory work – copywork

**FREE
PRINTABLE**

Order of Operations

P is for Parentheses

E is for Exponents

M and D are for Multiplication and

Division, left to right

A and S are for Addition and

Subtraction, left to right

Multiplication and division are equal

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Multiply and divide: $8 + 12$

Add: 20

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$8 + 3 = 11$
P
E
F
M
A

$8 + 3 = 11$
: 8 3 16 4
: 8 3 16 4
: 8 12
: 20

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Order of Operations

P i f P

E i f E

M a D a f M a D, l t r

A a S a f A a S, l t r

M a d a e i r, s w t f l t r. A
a s a e i r t.

E

$8 + 3 \times (1 - 6) / 4$

P: $8 + 3 \times 4 / 4$

E: $8 + 3 \times 16 / 4$

M a d: $8 + 12$

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Order of Operations

P for Parentheses

is for Exponents

D are for

Division, left

A

, right

Multiplication division are equal

in , work them from

right. Addition subtraction

equal in .

Example

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Order of Operations

Copy the PEMDAS order of operations and work through an example.



P is for Parentheses

E is for Exponents

M and D are for Multiplication and

Division, left to right

A and S are for Addition and

Subtraction, left to right

Multiplication and division are equal

in rank, so work them from left to
right. Addition and subtraction are
equal in rank too.

Example

$$8 + 3 \times (10 - 6)^2 / 4$$

Parentheses: $8 + 3 \times 4^2 / 4$

Exponents: $8 + 3 \times 16 / 4$

Multiply and divide: $8 + 12$

Add: 20

Order of Operations



P i f P

E i f E

M a D a f M a

D , l t r

A a S a f A a

S , l t r

M a d a e

i r , s w t f l t

r . A a s a

e i r t .

E

$$8 + 3 \times (1 - 6) \div 4$$

$$P : 8 + 3 \times 4 \div 4$$

$$E : 8 + 3 \times 16 \div 4$$

$$M \quad a \quad d : 8 + 12$$

$$A : 20$$

Order of Operations



Handwriting practice lines for the Order of Operations worksheet. The page contains 10 sets of three horizontal lines (top solid blue, middle dashed blue, bottom solid red) with a solid black baseline. Each set includes a series of short horizontal dashes for tracing or writing practice. The dashes are placed on the bottom solid red line of each set. The dashes are arranged in a way that suggests a sequence of operations, with some dashes being longer than others. The first set of dashes is on the first line, the second set on the second line, and so on, up to the tenth set on the tenth line. The dashes are arranged in a way that suggests a sequence of operations, with some dashes being longer than others. The first set of dashes is on the first line, the second set on the second line, and so on, up to the tenth set on the tenth line.

8 3 6) 4

: 8 3 4

: 8 3 16 4

: 8 12

: 20

Order of Operations



P is for Parentheses

E is for Exponents

M and D are for Multiplication and Division, left to right

A and S are for Addition and Subtraction, left to right

Multiplication and division are equal in rank, so work them from left to right. Addition and subtraction are equal in rank too.

Example

$$8 + 3 \times (10 - 6)^2 \div 4$$

Parentheses: $8 + 3 \times 4^2 \div 4$

Exponents: $8 + 3 \times 16 \div 4$

Multiply and divide: $8 + 12$

Add: 20

Order of Operations



P i f P

E i f E

M a D a f M a D, l t r

A a S a f A a S, l t r

M a d a e i r, s w t f l t r. A
a s a e i r t.

E

$$8 + 3 \times (1 - 6) / 4$$

$$P: 8 + 3 \times 4 / 4$$

$$E: 8 + 3 \times 16 / 4$$

$$M a d: 8 + 12$$

A: 20



P ___ for Parentheses

___ is for Exponents

___ D are for ___

Division, left ___

A

___, ___ right

Multiplication ___ division are equal

in ___, ___ work them from ___

right. Addition ___ subtraction ___

equal in ___.

Example

$$\underline{8} \quad \underline{\quad} \quad \underline{3} \times (\underline{10} \quad \underline{\quad} \quad \underline{6}) \div \underline{4}$$

Parentheses: $\underline{8} \quad \underline{\quad} \quad \underline{3} \quad \underline{\quad} \quad \underline{\quad} \quad \underline{\quad} \quad \underline{4}$

Exponents: $\underline{8} \quad \underline{\quad} \quad \underline{3} \times \underline{16} \quad \underline{\quad} \quad \underline{4}$

Multiply and divide: $\underline{8} \quad \underline{\quad} \quad \underline{12}$

Add: $\underline{20}$