Order of Operations 2: More practice!

Remember to write out the sum in changed form underneath the original question. Do ONE STEP at a time!

Q1. Only one change.

a) 2 + 2 x 3 =
b) 4 x 2 + 1 =
c) 6 + 4 ÷ 4 =
d) 4 + 5 x 1 =
e) 9 ÷ 3 - 1 =
f) 16 + 2 x 3 =
g) 11 - 10 ÷ 5 =
h) 45 ÷ 9 - 2 =
i) 17 - 4 x 3 =
j) 50 ÷ 10 + 1 =
k) (3 + 2) x 4 =
l) 3 x (2 + 5) =
m) 3 + 1 + 3 - 2 =
n) 5 - 4 + 2 =
o) 8 - (3 x 2) =
p) 2 x 3 ÷ 2 =
q) 9 + 3 x 2 =
r) 65 - 3 x 6 =
s) 10 - 3 x 2 =
t) 90 ÷ (6 + 4) =
u) 5 + 5 - 2 =
v) 4 x 3 ÷ 2 =
w) 13 + 3 x 9 =
x) 9 - 20 ÷ 5 =
y) 6 - 54 ÷ 9 =
z) 34 + 7 x 8 =
A) 23 - 5 x 4 =
B) 65 ÷ 5 + 2 =
C) 5 + 7 x 6 =
D) 34 - 5 x 6 =
E) 3 x 4 ÷ 2 =
F) 120 ÷ (6 + 4) =
G) 33 - 3 x 10 =
H) 7 + 3 x 9 =
I) 88 ÷ (7 + 4) =
J) (9 + 3) ÷ 6 =
K) 11 + 4 x 2 =
L) 90 - 8 x 7 =
M) 100 + 5 x 9 =
N) 39 ÷ (9 + 4) =
O) 67 + 3 x 11 =
P) 12 + 12 x 4 =
Q) 95 - 95 ÷ 5 =
R) 33 + 33 ÷ 3 =
S) 203 + 15 x 5 =
T) 86 + 42 ÷ 6 =
U) 102 + 7 x 8 =
V) 63 ÷ (7 + 2) =
W) 200 ÷ (14 + 6) =
X) 56 ÷ (10 - 2) =
Y) 2 x 3 + 56 =
Z) 44 + 4 x 11 =

Q2. These questions have three operations. You need to identify which one(s) are to be done first, then do those in the correct order. Remember that **x and ÷** are a pair, and **+ and -** are a pair.

a) 3 x 2 + 3 x 2 =
b) 4 x 1 + 2 x 7 =
c) 5 x 9 - 2 x 6 =
d) 1 x 9 - 3 x 2 =
e) 6 x 3 - 2 x 4 =
f) 7 x 6 + 3 x 9 =
g) 9 x 8 - 8 x 9 =
h) 5 x 5 + 2 x 9 =
i) 64 ÷ 8 + 3 x 2 =
j) 90 ÷ 10 - 5 x 1 =
k) 54 ÷ 6 + 3 x 7 =
l) 4 + 2 x 1 + 3 =
m) 56 ÷ 7 + 4 x 2 =
n) 30 - 2 x 2 + 5 =
o) 5 x 3 - 24 ÷ 6 =
p) 88 ÷ 11 - 2 x 3 =
q) 65 ÷ 5 - 2 x 1 =
r) (3 + 6) x 2 + 5 =
s) (12 - 4) x 8 - 3 =
t) (3 + 4) x 5 - 11 =
u) 53 - 2 x (4 + 1) =
v) 2 + 4 x (9 - 3) =
w) 34 + 9 x (11 - 3) =
x) 67 - 4 x (2 + 3) =
y) 23 + 3 x (16 - 9) =
z) 11 + 2 x (7 + 5) =
A) 100 - 88 ÷ (5 + 6) =
B) 9 + 12 ÷ (6 + 6) =
C) 12 + 2 x 3 - 3 x 1 =
D) 3 x 2 + 3 x 4 - 5 =
E) 65 - 3 x 4 + 3 x 2 =
F) 4 - 2 x 2 =
G) 89 - 8 x 9 - 9 =
H) 77 + 7 x 6 - 6 x 6 =
I) 4 - 3 x 4 + 5 x 1 =
J) 9 x 3 - 4 x 5 =

K) 5 x 2 x 3 - 2 x 4 = L) 16 - 2 - 3 + 4 = M) 44 ÷ 11 ÷ 2 + 5 = N) 90 - 20 - 10 + 2 =
O) 6 x 2 - 3 x 2 = P) (3 + 2 x 3) ÷ 9 - 1 = Q) 6 - 2 x 2 + 4 x 2 = R) 78 - 7 x 8 - 7 =

Q3. Last, some nested brackets. Remember to go to the innermost bracket first and then solve your way outwards.

a) ((3 + 2) x 2 - 4) ÷ 3 = b) ((3 + 5) x 3 - 20) x 3 = c) 9 x ((2 + 3) x 2 - 4) =

d) 40 ÷ (2 + 2 x (10 - 6)) = e) ((6 + 2) ÷ 4 - 1) x 9 = f) 11 x (3 + (2 + 7) x 3) =

SOLUTIONS

Q1. a) 8 b) 9 c) 7 d) 9 e) 2 f) 22 g) 9 h) 3 i) 5 j) 6 k) 20 l) 15 m) 5 n) 3 o) 2 p) 3 q) 15 r) 47 s) 4 t) 9 u) 8 v) 6 w) 40 x) 5 y) 0 z) 90 A) 3 B) 15 C) 47 D) 30 E) 6 F) 12 G) 3 H) 34 I) 8 J) 2 K) 19 L) 34 M) 145 N) 3 O) 100 P) 60 Q) 76 R) 44 S) 278 T) 93 U) 158 V) 7 W) 10 X) 7 Y) 62 Z) 88 Questions 2 and 3 will be marked by the teacher upon submission of this work.