Order of Operations

Perform operations in the correct order

1. Evaluate:

a) $3 + 4 \times 2$ b) $16 - 4 \div 2$ c) $1 + 2 \times 3 - 4$

d) $5 + 7 - 3 + 1$ e) $5 + 7 - (3 + 1)$ f) $\frac{5+3}{4-2}$

g) $2^2 + 2 \times 2$ h) $10 \div 10 \div 1$

2. Insert brackets to make each calculation correct.

a) $9 + 3 \times 4 = 48$ b) $9 \div 2 + 3 + 4 = 1$ c) $2 + 4 \div 2 + 1 = 2$

Challenge

Using four fours, make as many of the numbers from 1 to 20 as you can.

You may use + , - , x , ÷ , x^4 , √ and brackets.

One example is done for you.

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

11	
12	
13	
14	
15	4 x 4 – 4 ÷ 4
16	
17	
18	
19	
20	

Answers

1. Evaluate:

b) $3 + 4 \times 2$
= 11

b) $16 - 4 \div 2$
= 14

c) $1 + 2 \times 3 - 4$
= 3

d) $5 + 7 - 3 + 1$
= 10

e) $5 + 7 - (3 + 1)$
= 8

f) $\frac{5+3}{4-2}$ = 4

g) $2^2 + 2 \times 2$
= 8

h) $10 \div 10 \div 1$
= 1

2. Insert brackets to make each calculation correct.

b) $(9 + 3) \times 4 = 48$

b) $9 \div (2 + 3 + 4) = 1$

c) $(2 + 4) \div (2 + 1) = 2$