

Order of Operations Homework

1. Calculate

a. $20 + 3 \times 5$

b. $14 - 4 \times 2$

c. $3 \times (4 + 6)$

d. $17 + 8 \div 4$

e. $15 - 10 \div 2$

f. $(2 + 1) \times (3 - -4)$

2. Calculate

a. $4^2 + 3^2$

b. $5^2 \times 2^3$

c. $(8 + 1)^2$

d. $4 - 2^2$

e. $3 \times (1 - 4)^2$

f. $(4 - 7)^2 \times 5$

3. Put a pair of brackets into the statements below to make them correct.

a. $5 \times 6 + 4 - 2 = 48$




b. $9 - 2 \times 5 + 1 = -3$

c. $7 + 9 \div 2 - 4 = 4$

d. $5 \times 6 - 3^2 = 45$

Challenge

Write and solve your own expression which uses the symbols \times , \div , $+$, $-$, $()$ and 2 exactly once.

| WWW | Order of Operations |  |  |  |
|------------------|--|---|---|---|
| 1 | Using the four operations. | | | |
| 2 | Calculations including indices. | | | |
| 3 | Completing a calculation by adding brackets. | | | |
| Challenge | Write your own problem. | | | |
| EBI | | | | |

Answers

1.

a. 35

b. 6

c. 30

d. 19

e. 10

f. 21

2.

a. 25

b. 200

c. 81

d. 0

e. 27

f. 45

3.

a. $5 \times (6 + 4) - 2 = 48$

b. $9 - 2 \times (5 + 1) = -3$

c. $(7 + 9) \div 2 - 4 = 4$

d. $5 \times (6 - 3)^2 = 45$