Mathematics worksheet (1)

Negative numbers + order of operations
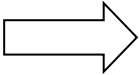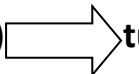
Name: **Grade 6 (B, C, D, E, F)**

Negative numbers.

Adding and subtracting negative numbers.

Remember:

In **adding** and **subtracting** negative numbers, remember that:

- **Same** signs ⟹ **add** the numbers and put the **common** sign.

  Example: -2 + -4 = -6

- **Different** signs ⟹ **subtract** the numbers and the **sign** of the **answer** is according to the **sign** of the **bigger** number.

  Example: -8 + 5 = -3

- When you have **two negative** signs (- -) ⟹ **turn** the sign to **positive** (+).

  Example: (4 − − 6 it will be 4 + 6 = 10)

Exercise (1): Work out.

a) -6 + 8 = 2   b) -25 - 5 = -30   c) -8 + (-9) = -17

d) -15 − − 15 = 0   e) -10 + 2 = -8   f) -56 + (-7) =-63

g) -3 + (-9) = -12   h) -11- 5 = -16   i) 17 − 30 = -13

Accredited by
Cambridge Assessment International Education
Cambridge International School
edexcel
CIS COUNCIL OF INTERNATIONAL SCHOOLS
ib
Eco-Schools
معتمدة من

1

j) -12 – – 3 = -9   k) -6 – – 3 = -3   l) 9 – 12 = -3

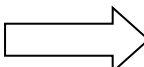m) 13 – – 28 = 41   n) -7 – 10 = -17   o) -20 + 30 = 10

Multiplying and dividing negative numbers.

Remember:

- if you have **same** signs (+ +) or (- -) ⟹ The sign of the **answer** is **positive** (+)

  Example: - 2 × - 5 = 10

- If you have **different** signs (+ -) ⟹ The sign of the **answer** is **negative** (-)

  Example: -3 × 9 = 27

Exercise (2): Work out.

a) -8 x 7 = -56   b) -6 x (-2) = 12   c) 4 x (-3) = -12

d) 14 x (-7) = -98   e) -8 x (-3) = 24   f) -60 x 8 = -480

g) -10 x (-20) = 200   h) 13 x 4 = 52   i) -8 ÷ 2 = -4

j) 12÷ (-6) = -2   k) -10 ÷ 5 = -2   l) 20 ÷ (-4) = -5

m) -50 ÷ 5 = -10   n) -27 ÷ (-9) = 3   o) -120 ÷ 20= -6

Mixed questions.

<u>**Exercise (3):**</u> Work out.

a) -10 + -9 = -19	b) 7 – – 4 = 11
c) -13 + 6 = -7	d) 10 x (-6) = -60
e) -9 ÷ (-3) = 3	f) -35 ÷ 7 = -5
g) 19 – 9 = 10	h) -14 – 8 = -22
i) 42 ÷ (-6) = -7	j) -12 x (-4) = 48
k) 26 + (-8) = 18	l) 7 + (-30) = -23
m) –14 – – 13 = -1	n) -36 – 4 = -40
o) -5 x (-10) = 50	p) 9 x (-6) = -54
q) -48 ÷ 8 = -6	r) 21÷ (-3) = -7

Order of operations (BIDMAS rule).

Remember:
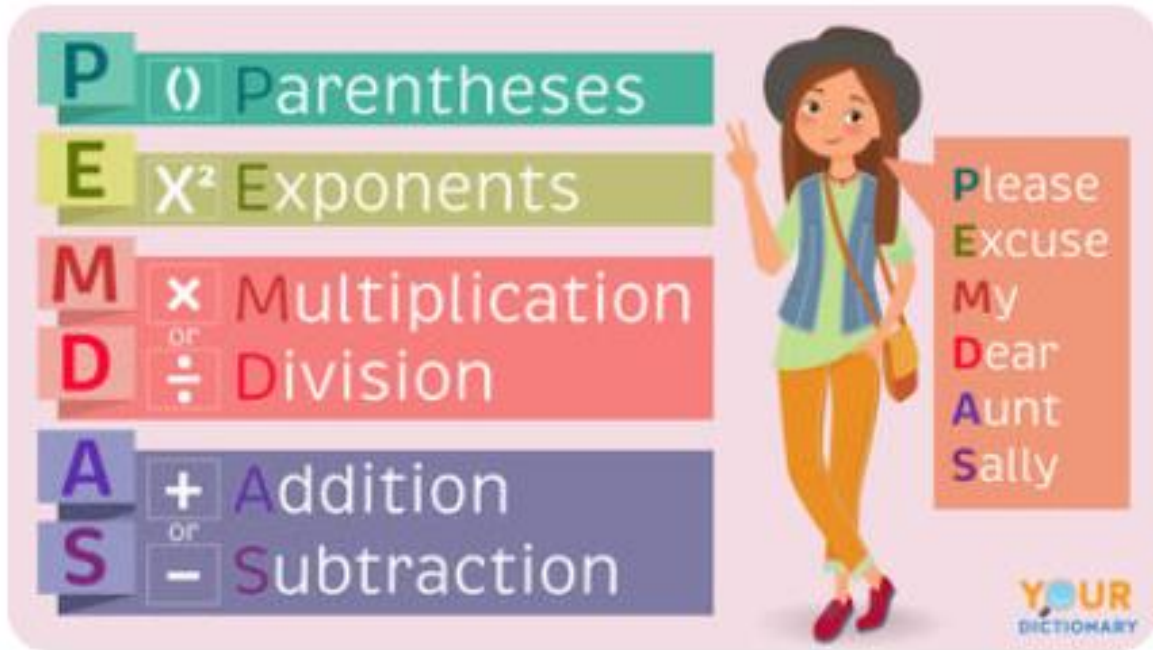
Exercise: Work out.

a) $4 + 2 \times 6 - 10$

    6

b) $6 \times (9 - 10) + 7$

    1

c) $19 - 6 \div 2 \times 3$

    10

d) $6^2 - 7 \times 4 + (10 - 5)$

    13

e) $-2 \times 9 + \, -3 \times -7$

    3

f) $-12 + (36 \div 12) \times 3^3 - 20$

    49

Challenging question.

Workout.

$$-5 - 6 \times (3 + 5) \div 12 - 7^2 - 4^3 \div 8 \times 12 - 35$$

-189