



The National
Orthodox School
Shmaisani



6-F

Mathematics worksheet (1)

Negative numbers + order of operations

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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: $-8 + 5 = -3 \leftrightarrow 5 - 8 = -3$
- 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) $17 - 30 = -13$

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$$j) -12 \begin{array}{r} \diagdown \\ + \end{array} 3 = -9$$

$$k) -6 \begin{array}{r} \diagdown \\ + \end{array} 3 = -3$$

$$l) 9 - 12 = -3$$

$$m) 13 \begin{array}{r} \diagdown \\ + \end{array} 28 = 41$$

$$n) -7 \begin{array}{r} \diagdown \\ + \end{array} 10 = -17$$

$$o) -20 + 30 = 10$$

Multiplying and dividing negative numbers.

Remember:

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

Example: $-2 \times -5 = 10$

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

Example: $-3 \times 9 = -27$

Exercise (2): Work out.

$$a) -8 \times 7 = -56$$

$$b) -6 \times (-2) = 12$$

$$c) 4 \times (-3) = -12$$

$$d) 14 \times (-7) = -98$$

$$e) -8 \times (-3) = 24$$

$$f) -60 \times 8 = -480$$

$$g) -10 \times (-20) = 200$$

$$h) 13 \times 4 = 52$$

$$i) -8 \div 2 = -4$$

$$j) 12 \div (-6) = -2$$

$$k) -10 \div 5 = -2$$

$$l) 20 \div (-4) = -5$$

$$m) -50 \div 5 = -10$$

$$n) -27 \div (-9) = 3$$

$$o) -120 \div 20 = -6$$

Mixed questions.

Exercise (3): Work out.

a) $-10 + -9 = -19$

b) $7 \begin{array}{r} \swarrow \\ - \end{array} 4 = 11$

c) $-13 + 6 = -7$

d) $10 \times (-6) = -60$

e) $-9 \div (-3) = 3$

f) $-35 \div 7 = -5$

g) $19 - 9 = 10$

h) $-14 - 8 = -22$

i) $42 \div (-6) = -7$

j) $-12 \times (-4) = 48$

k) $26 + (-8) = 18$

l) $7 + (-30) = -23$

m) $-14 - 13 = -1$

n) $-36 - 4 = -40$

o) $-5 \times (-10) = 50$

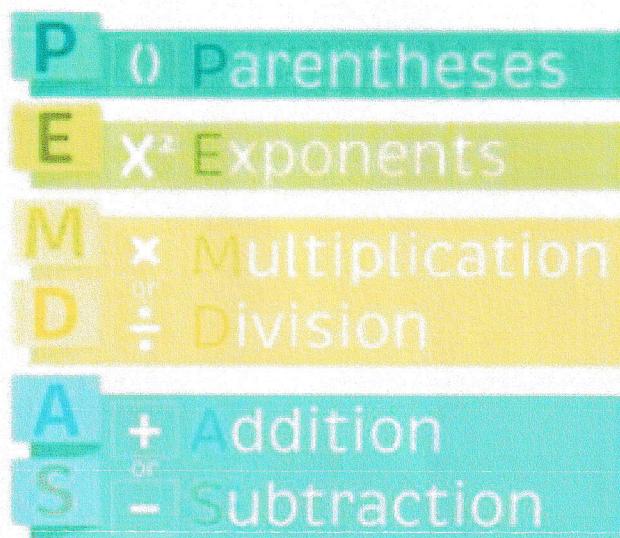
p) $9 \times (-6) = -54$

q) $-48 \div 8 = -6$

r) $21 \div (-3) = -7$

Order of operations (BIDMAS rule).

Remember:



Exercise: Work out.

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

$$\begin{aligned} &4 + 12 - 10 \\ &16 - 10 = 6 \end{aligned}$$

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

$$\begin{aligned} &6 \times -1 + 7 \\ &-6 + 7 = 1 \end{aligned}$$

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

$$\begin{aligned} &19 - 3 \times 3 \\ &19 - 9 = 10 \end{aligned}$$

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

$$\begin{aligned} &6^2 - 7 \times 4 + 5 \\ &36 - 28 + 5 \\ &8 + 5 = 13 \end{aligned}$$

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

$$\begin{aligned} &-18 + -3 \times -7 \\ &-18 + 21 = 3 \end{aligned}$$

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

$$\begin{aligned} &-12 + 3 \times 3^3 - 20 \\ &-12 + 3 \times 27 - 20 \\ &-12 + 81 - 20 \\ &69 - 20 = 49 \end{aligned}$$

Challenging question.

Workout.

$$\begin{aligned}
 & -5 - 6 \times (3 + 5) \div 12 - 7^2 - 4^3 \div 8 \times 12 - 35 \\
 & -5 - 6 \times 8 \div 12 - 7^2 - 4^3 \div 8 \times 12 - 35 \\
 & -5 - 6 \times 8 \div 12 - 49 - 4^3 \div 8 \times 12 - 35 \\
 & -5 - 6 \times 8 \div 12 - 49 - 64 \div 8 \times 12 - 35 \\
 & -5 - 48 \div 12 - 49 - 64 \div 8 \times 12 - 35 \\
 & -5 - 4 - 49 - 64 \div 8 \times 12 - 35 \\
 & -5 - 4 - 49 - 8 \times 12 - 35 \\
 & -5 - 4 - 49 - 96 - 35 \\
 & -58 - 96 - 35 \\
 & -154 - 35 = -189
 \end{aligned}$$