

# Worksheet (1) |

The Lower Secondary
Stage (6-8)

1st Semester | 2023-2024

Subject: Math Chapter: 1 (numbers and calculations)

Name: Answer key Grade 6 CS

**Objectives:** 

• To apply the rule of adding, subtracting, multiplying, and dividing negative numbers

#### 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) 
$$-15 - -15 = 0$$

$$f) -56 + (-7) = -63$$

$$g) -3 + (-9) = -12$$















$$j) -12 - -3 = -9$$

$$k) -6 - -3 = -3$$

I) 
$$9 - 12 = -3$$

m) 
$$13 - 28 = 41$$

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

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

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

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

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

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

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

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

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

## Mixed questions.

## Exercise (3):

Work out.

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

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

g) 
$$19 - 9 = 10$$

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

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

m) 
$$-14 - -13 = -1$$

n) 
$$-36 - 4 = -40$$

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

Word problems.

## Problem (1):

The highest place in the world where you could sit is on top of Mount Everest. It is 8840 m high.

The lowest place where you could sit is on the shore of the Dead Sea. It is -393 m high.

What is the **difference** between these heights?

8840 + 393 = 9233 m

## Problem (2):

At a weather station in the Arctic the temperature was recorded at -23 °C.

Two hours later it had fallen by 8 °C.

a) What was the new temperature?

$$-23 - 8 = -31$$

b) Four hours after the first readings the temperature was –41 °C. By how much had the temperature fallen in 4 hours?

18°C

