Worksheet (1) |

The Lower Secondary
Stage (6-8)

1st Semester | 2023-2024

Subject: Math

Chapter: 1 (numbers and calculations)

Name: _____

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 =

b) -25 - 5 =

c) -8 + (-9) =

d) -15 – – 15 =

e) -10 + 2 =

f) -56 + (-7) =

g) -3 + (-9) =

h) -11- 5 =

i) 17 – 30 =

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

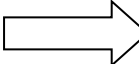m) 13 – – 28 =   n) -7 – 10 =   o) -20 + 30 =

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 =   b) -6 x (-2) =   c) 4 x (-3) =

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

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

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

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

Mixed questions.

Exercise (3):

Work out.

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

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?

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?

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