



**DEPARTMENT OF MATHEMATICS**

**GRADES 4 TO 12**

**TERM-1, ACADEMIC YEAR 2017 – 18**

Worksheet No.	1	Topic	Number & Calculations 1		
Grade	7	Section	A - J	Date	4/10/2017
Student Name					

**Rules for Integer and Operations:**

**1. Add & Subtract:**

Same sign- Add and keep the sign

Different sign- Subtract & take the sign of the larger number

**2. Multiply & divide:**

Same sign- Positive answer

Different sign- negative answer

**1. Work out the following:**

a)  $-2 + 5 = \dots\dots\dots$

b)  $6 + -17 = \dots\dots\dots$

c)  $-3 + -8 = \dots\dots\dots$

d)  $15 + -5 = \dots\dots\dots$

e)  $-1 + -5 - 1 = \dots\dots\dots$

f)  $4 + 6 + -3 = \dots\dots\dots$

g)  $3 - -9 - 4 = \dots\dots\dots$

h)  $7 + - 5 - -2 = \dots\dots\dots$

**i)** Sara was on a cliff 25 feet above sea level. She jumped into the sea and descended a total of 37 feet. How many feet below sea level did she travel? Justify your reasoning

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**j)** Tony had -15 dollars in his bank account. He deposited 45 dollars into his account. How much money did he now have in his account? Justify your reasoning

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k) The temperature on Wednesday evening was  $-5^{\circ}$  Fahrenheit. The temperature decreased another  $8^{\circ}$  throughout the night. What was the temperature on Thursday morning? Justify your reasoning.

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## 2. Work out the following:

a)  $3 \times -14 = \dots\dots\dots$

b)  $-10 \times -10 \times -10 = \dots\dots\dots$

c)  $-4 \times -6 = \dots\dots\dots$

d)  $-2 \times 3 \times -6 = \dots\dots\dots$

e)  $-13 \times -7 = \dots\dots\dots$

f)  $-11 \times 12 \times -13 = \dots\dots\dots$

g)  $11 \times -12 = \dots\dots\dots$

h)  $8 \times -9 \times -10 = \dots\dots\dots$

i)  $-85 \div 5 = \dots\dots\dots$

j)  $-90 \div -15 = \dots\dots\dots$

k)  $56 \div -8 = \dots\dots\dots$

l)  $63 \div 7 = \dots\dots\dots$

## 3. Work out:

a)  $3 + 2 \times 10 =$

b)  $6 + 16 \div 4^2 =$

c)  $-10 - (7 \times -3) =$

d)  $-3 \times -2 + 60 =$

e)  $6^2 - 4^2 \times 2 =$

f)  $-8 - 2^2 \times 2^3 + 32 =$

g)  $7 + (9 - 2^2) \times 2^2 - (3^2 + 5) \div 7 =$

**Answers:**

1.)

- a) 3
- b) -11
- c) -11
- d) 10
- e) -7
- f) 7
- g) 8
- h) 4
- i)  $25 + (-37) = -12$ . She landed 12 feet below sea level.
- j)  $-15 + 45 = 30$  Tony now had 30 dollars in his account.
- k)  $-5 + (-8) = -13$  or  $-5 - 8 = -13$  The temperature on Thursday morning was  $-13^{\circ}$  Fahrenheit.



2.)

- a) -42
- b) -1000
- c) 24
- d) 36
- e) 91
- f) 1716
- g) -132
- h) 720
- i) -17
- j) 6
- k) -7
- l) 9

3.)

- a) 23
- b) 7
- c) 11
- d) 66
- e) 4
- f) -8
- g) 25