

# INTERNATIONAL PRIME SCHOOL

Worksheet: Week-4; Sub: Mathematics

Class: VI

1. When loaded with bricks, a lorry has a mass of 11600 kg. If the mass of the bricks is three times that of the empty lorry, find the mass of the bricks.
2. Amirah is 4 years older than Priya and Shirley is 2 years younger than Priya. If the sum of their ages is 47, find their respective ages.
3. The sum of two numbers, one of which is two-thirds of the other is 45. Find the smaller number.
4. The sum of half of a number and 49 is  $2\frac{1}{4}$  of the number. Find the number.
5. When a number is multiplied by 4 before subtracting from 68, the result obtained is the same as three times the sum of the number and 4. Find the number.
6. If  $S = 4\pi r^2$ , find
  - i) the value of  $S$  when  $r = 10\frac{1}{2}$
  - ii) the positive value of  $r$  when  $S = 66$ . (Take  $\pi$  to be  $\frac{22}{7}$ )
7. The formula for finding the area  $A$  of a triangle is given by  $A = \frac{1}{2}bh$ , where  $b$  and  $h$  represent the base and height of the triangle respectively.
  - i) if  $b = 20\text{ cm}$  and  $h = 45\text{ cm}$ , find the area of the triangle.
  - ii) If  $A = 30\text{ cm}^2$  and  $b = 10\text{ cm}$ , find the height of the triangle.
8. Find a formula for each of the following.
  - i) Product  $P$  of three numbers  $x$ ,  $y$  and  $z$
  - ii) Sum  $S$  of the square of  $p$  and the cube of  $q$

iii) Average  $A$  of four numbers  $m$ ,  $n$ ,  $p$  and  $q$

iv) Time  $T$ , in minutes, for a train journey of  $a$  hours  $b$  minutes.

9. Find the value of each of the following.

a) 20% of \$13.25

b)  $15\frac{3}{4}\%$  of \$640

10. Find the value of 2500% of \$4.60

11. A class has 40 students. Given that 75% of them passed a Mathematics test, calculate the number of the students who failed the test.

12. A school has 1500 students. Given that 3% of them were late for school on a particular day, find the number of students who were punctual for school.

13. 1800 people attended the National Day dinner in a certain constituency. Given that 35.5% of them were men, 40% of them were women and rest were children, find the number of the children who attended the dinner.

14. Multiply together:

i)  $2a^2 + ab$  and  $2ab$

ii)  $2a^2 - 3ab$  and  $2ab^2$

iii)  $2x^2 - 5xy$  and  $2x^2$

iv)  $3a^2 - b^2$  and  $2b^3$

v)  $5x^2 - xy$  and  $xy^2$

vi)  $3x^4 - x^2y$  and  $2xy^3$

vii)  $3a^3 - b^3$  and  $-2ab$

viii)  $3x^2 - y^2$  and  $-4x^3y$

# INTERNATIONAL PRIME SCHOOL

Class: VI, Sub: ICT

Worksheet: 04

1. Fill in the blanks.

- (a) \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ are examples of selection statements in QBASIC.
- (b) The \_\_\_\_\_ allows a statement to be selected from a list of alternatives.
- (c) The last statement in the SELECT CASE statement is \_\_\_\_\_.
- (d) The Logical Operators are \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.
- (e) The MOD operator requires the operands to be of \_\_\_\_\_ type.

2. Answer the following.

- (a) What is a selection statement?
- (b) Name the selection statements used in QBASIC.

3. Write programs to do the following.

- (a) Programs to display the number in words.
- (b) Program to make a calculator.
- (c) Program to check if the input letter is a 'Vowel'.
- (d) Program to check if the input number is 'Odd' or 'Even'.
- (e) Program to print the sum of numbers.

# International Prime School

## Work sheet- 4

### Class- VI

### Science

1. What is magnetic separation system? Name five sectors in which this system is used.
2. Name the system by which we get clean water from river water. Describe about a water purification plant along with diagram.
3. Describe about evaporation system with diagram.
4. How can we get salt from sea water? Describe in detail.
5. Write down short a note on 'Distillation'. (With diagram).
6. How can we get different kinds of oil from crude oil?
7. Which separation technique would you use for each of the following?
  - a) Obtaining chalk from a suspension of chalk and water
  - b) Obtaining pure from water seawater
  - c) Obtaining iron fillings from a mixture of sawdust and iron fillings
  - d) Identifying the colour pigments in flower petals
  - e) Obtaining salt from seawater
8. Relate one use of the following (daily or industrial) :
  - a) Magnetic attraction
  - b) Filtration
  - c) Evaporation
  - d) Distillation
  - e) Chromatography

# International Prime School

## Week 4

### Geography

#### Class VI

#### Ch: 6

- a) What is weather prediction?

Weather prediction is the system of collecting weather information from satellite imagery and forecasting the weather.

- b) Where can one collect primary data of weather?

One can collect primary data of weather from weather stations.

- c) How many wind farms are there in Bangladesh?

There are three wind farms in Bangladesh.

- d) What is cyclone?

A cyclone is a large scale air mass that rotates around a strong center of low atmospheric pressure.

- e) Which one is the deadliest cyclone in the history of Bangladesh?

1970 cyclone or ‘ Bhola cyclone’ is the deadliest one.

- f) What is the name of cyclone in East Pacific ocean?

Hurricane is the name of cyclone in East Pacific ocean.

- g) Which part of Bangladesh is most vulnerable to cyclone?

Coastal area of Bangladesh is most vulnerable to cyclone.

- h) Why is Bangladesh coastal area most vulnerable?

Due to its funnel shape, Bangladesh’s coast is most vulnerable to cyclone.

- i) Which part of the cyclone has most energy?

‘Eye’ of the cyclone has most energy.

- j) What is the name of cyclone measurement scale?

Saffir-simpson scale.

#### Diagram

Draw a cross section of cyclone.

# International Prime School

Week 4

History

Class VI

## **Ch: 1; Book 2**

### **1. Broad questions:**

- a) Describe about the Holy Roman Empire.
- b) Describe the beginning of parliament.
- c) Describe the Henry VII rule in England.
- d) Describe the civil war in 1642.

### **2. Short Questions:**

- a) Write a short note on the 'religion reformation' of 15<sup>th</sup> century.
- b) Who was Henry VII?
- c) What is civil war?

Worksheet

class - VI

বাংলা

সাদার তেবেমা

16.04.20

১। অদার্থ লিখ: মিশনারী, নান, খনাত, রপ্ত  
গাউন, ব্রত, আবায়ন।

২। বাক্য রচনা কর :

মিশনারী, খনাত, গাউন, রপ্ত জাতি

৩। প্রশ্ন লিখ:

ক. সাদার তেবেমা গাউন ছোড়ে জাতি পড়েছিল  
কেন?

খ. সাদার তেবেমা মেবা কাজের জন্য কী পুরস্কার  
পেয়েছেন? আর এই পুরস্কারের অর্থ কাদের জন্য  
ব্যয় করেছেন?

গ. কুই বোঙ্গীদের জন্য কী প্রতিষ্ঠা করেছেন?  
সাদার তেবেমা তাদের কীভাবে মেবা দিতেন? লিখ