**2016 – 17**

**OTBA**

 **CLASS VII**

 **SUBJECT:MATHEMATICS**

**1.THEME : ANALYSIS OF HEIGHTS OF CHILDREN**

Mr. Sharma divided the students into two groups. Responsibilities were assigned as per the following chart….

Group Responsibility assigned

A To collect the data of heights of students in your class

B Arrange the data in tabular form

|  |  |
| --- | --- |
| **Height (in cm)** | **Number of children**  |
| 110120128130 | 22253221 |
| **Total** | **100** |

Questions-

1. Find the percentage of children of different heights. 3 marks
2. (a) Which height has the minimum percentage. 1 marks

(b) What is the difference in percentage of maximum and minimum

 height 2 marks

1. (a) Find the ratio of children of heights 110 cm and 128 cm. 2 marks

 (b) Find the average height. 2 marks

**1. THEME: ANALYSIS OF HEIGHT**

**1. Height (in cm) Percentage of children**

 110 22%

 120 25%

 128 32%

 130 21% 3 marks

2. (a) 130 1 mark

 (b) 1% 2 marks

3. (a) 11:16 2 marks

 (b) (110+120+128+130)/4=488/4=122 cm. 2 marks

 **THEME -2 IMPORTANCE OF HEALTHY DIET**

Responsibilities were assigned as per the following chart

Team Team leader Responsibility

1 Ram To collect the data of nutrient intake and energy intake from students of

 your class VII

2 Shyam To represent the data in pictorial form

**Work of team One**

Average food intake from team one of class VII

Nutrients boys (in grams) girls (in grams)

Cereals & cereal products 360 280

Fruits and fruit products 140 120

Vegetables 160 150

Dairy products 440 360

**Work of team Two**

Team 2 prepared the pictorial presentation of data of average food intake of class VII.

Questions.-

1. (a) Find the average food intake of each nutrients as listed for boys and girls. 3 marks

 2. (a) Which nutrients preferred most by boys. 1.5 marks

 (b) Which nutrients preferred least by girls. 1.5 marks

3. Draw the bar graph of the average food intake of each nutrients. 4 marks

**MARKING SCHEME**

**2.THEME : HEALTHY DIET**

**1.**

Nutrients Average Food Intake (in gm)

Cereals & cereal products 320

Fruits and fruit products 130

Vegetables 155

Dairy products 400 3 marks

**2.(a)**

Dairy products 1.5 marks

**2.(b)**

Fruits and fruit products 1.5 marks

3.

 **4 marks**