# MATHEMATICS Std VII ASSIGNMENT

MATHEMATICS

Std VII

ASSIGNMENT: Fractions and Decimals

Exercise 2.3

Q3. Evaluate the following:

(iii) $2⅓ \times 5\ ^{4}/21$

Solution:

$2⅓ \times 5\ ^{4}/21$

$= 7/3 \times 109/21$

$= \frac{7 \times 109}{3 \times 21}$

$= 763/63$

$= 109/9$ (763÷7=109 and 63÷7=9)

$= 12^{1}/9$ ans.

Q7. If the speed of a car is 105⅕ km/h , find the distance covered by it in 3⅗ hours.

Solution;

Speed of a car = 105⅕ km/h

Distance covered in 3⅗ hrs. = Speed × Time = $526/5 \times 18/5$

$= \frac{526 \times 18}{5 \times 5}$

$= 9468/25$

$= 378\ ^{18}/_{25}$ Km.

Q12. A rectangular sheet of paper is 12½ cm long and 10⅔cm wide. Find its ( i) perimeter ( ii) area.

Solution:

Length of sheet = 12½ cm

= 25/2 cm

Breadth of sheet = 10⅔ cm

= 32/3 cm

(i) Perimeter of rectangle = 2( length + breadth)

$= 2\ (25/2 + 32/3)$

$= 2 \left(\frac{25 \times 3 + 32 \times 2}{6}\right)$

$= 2\left(\frac{75+64}{6}\right)$

$= 2 \times 139/6$

$= 278/6$

$= 46⅓$ cm.

(ii) Area of rectangular sheet = length ×breadth

$= 25/2 \times 32/3$

$= 400/3$

$=133⅓$ sq. cm

Homework:

Question no. 3(i), (ii), (iv)

Question no. 8, 9 and 14

## EXPERIMENT NO. 2

***Points to remember*** .

**Read and understand the experiment.*

**In the Maths Practical Copy write down AIM, MATERIAL REQUIRED , METHODOLOGY , TABULAR COLUMN and CONCLUSION on the ruled page. DIAGRAM and CALCULATION on the plane page.*

**Follow the PROCEDURE properly to get the correct conclusion.*

**All the Maths practicals must be done in the same Maths Lab copy .*

**MATHS PRACTICAL COPY must be a soft cover Lab copy with atleast 50 to 60 pages*

**AIM**: To find the relationship between the circumference and the diameter of a circle.

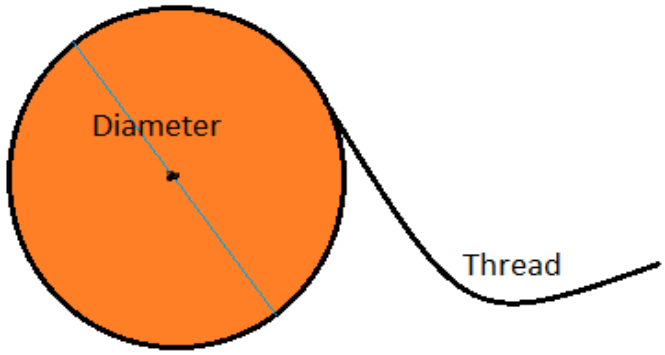
**MATERIAL REQUIRED**:

1) Four circular objects of different radii[may be 4 bottle caps]

2) Thread 3) Ruler

**METHODOLOGY**

**Average =** $\frac{Sum\ of\ all\ observations}{number\ of\ trials}$




**PROCEDURE:** Follow the steps below in order

Step 1. Measure the diameter of the circular object by using a ruler and note down in the observation table.

Step 2. Place the thread on the boundary of the circular object as shown in the figure and measure its length ( circumference) by using a ruler. Write down length in the observation table.

Step 3. Repeat step 1 and step 2 for all other circular objects.

**OBSERVATION TABLE AND CALCULATION**.

| Trial No. | Diameter (d) | Circumference (c) | $\frac{c}{d}$ |
|---|---|---|---|
| 1<br>2<br>3<br>4 | | | |
| | | Average of c/d | |

**CONCLUSION**:

It is clear from the observation table that the ratio between circumference to diameter is =---------.