

SESSION : 13

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 6

CHAPTER NAME : Rounding off- Estimation

SUBTOPIC : Estimation (Story sums)

Discussion of Examples

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE :

Enable the students

- To understand the need of rounding off
- To apply it in day to day life
- To get a general idea about situations involving addition, subtraction, multiplication or division.

Solve this number puzzle?

Can You Solve This Number Puzzle..?

$$\begin{aligned}2 + 10 &= 24 \\3 + 6 &= 27 \\7 + 2 &= 63 \\5 + 3 &= ??\end{aligned}$$



A) 40	B) 44
C) 60	D) 56

Solve the missing number puzzle?

Find the Missing Number

44	14	48
12	51	30
56	??	78

A) 58

B) 63

C) 78

D) 65

6.3 ESTIMATION – STORY SUMS

RULE – In case rounding off place value is not specified, we add or subtract numbers having different digits by rounding off all the numbers to the greatest place of the number having the least number of digits.

An estimation is the answer close to the actual answer.



ESTIMATION – STORY SUMS

EXAMPLE 1

Mr. Singh has 193 Pepsi, 187 Coca Cola and 95 Fanta bottles in his shop. Estimate about how many bottles he has in stock by rounding off each number to the nearest tens.

Solution :

Round off 193, 187 and 95 to the nearest tens

$$\begin{array}{rcl} 193 & \xrightarrow{\hspace{1cm}} & 190 \\ 187 & \xrightarrow{\hspace{1cm}} & 190 \\ 95 & \xrightarrow{\hspace{1cm}} & 100 \\ & \hline & 480 \end{array}$$

So, about 480 bottles are in the stock.

ESTIMATION – STORY SUMS

EXAMPLE 2

A shopkeeper's monthly income by sale was Rs.27,650 and his expenditure was Rs. 15,275.

Estimate his profit by rounding off to the nearest thousands .

Solution :

Round off each number to its greatest place value and subtract.

Round off 27,650 and 15,275 to the nearest thousands

$$\begin{array}{r} 27,650 \longrightarrow 28,000 \\ 15,270 \longrightarrow 15,000 \\ \hline 13,000 \end{array}$$

So, his profit was about Rs. 13,000

ESTIMATION – STORY SUMS

EXAMPLE 3

Sahil bought a mobile phone for Rs. 6,325 and mobile cover for Rs.189. Find out about how much money he spent ?

Solution :

Out of the two given numbers, 189 is the smaller number (3-digit number). So, we shall round off both the numbers to the greatest place of 3-digit number, i.e. to the nearest hundreds.

$$\begin{array}{r} 6,325 \quad \longrightarrow \quad 6,300 \\ 189 \quad \longrightarrow \quad 200 \\ \hline \hline 6,500 \end{array}$$

So, he spent around Rs.6,500

ESTIMATION – STORY SUMS

EXAMPLE 4

A stadium has 28 rows and each row has 437 seats. About how many persons can be accommodated in the stadium ?

Rule - When finding the product of numbers, we round off each factor to its greatest place and multiply the rounded off factors.

Solution :

Round off the numbers to their greatest place value and multiply.

$$28 \longrightarrow 30$$

$$437 \longrightarrow 400$$

$$\text{Number of seats} = 30 \times 400 = 12,000$$

So, the stadium can accommodate about 12,000 people

LEARNING OUTCOME:

Students are able

- **To understand the need of rounding off**
- **To apply it in day to day life**
- **To get a general idea about situations involving addition, subtraction, multiplication or division.**

HOME WORK-

Practice examples

THANKING YOU
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