

MONTH : NOVEMBER

SESSION : 11

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 13

CHAPTER NAME : PERCENTAGE

SUB-TOPIC : WORD PROBLEMS

EXERCISE 13 B Q.NO.3 TO 7

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE :

Enable the students

- To find the percentage of a given quantity.
- Correctly set up the mathematical problem.

Word problems on Percentage

Example: In a class of 50 students 30 are girls. What is the percentage of girl in the class.

Solution:

Total students = 50

No. of girls = 30

$$\text{Percentage of girls} = \frac{30}{50} \times \overset{2}{\cancel{100}} = 60\%$$



PERCENTAGE

EXERCISE 13 B

3. In a class 10 % of the students failed in maths. There are 50 students in the class. Find how many students failed in Maths. Also find the number of students who passed.

Total students = 50

Percentage of failed students = 10%

No. of students failed = 10 % of 50 = $50 \times \frac{10}{100} = 5$ students

No of students passed = $50 - 5 = 45$ students

Thus, **5** students failed and **45** students passed in Maths.



PERCENTAGE

EXERCISE 13 B

4. A basket contains two dozens of mangoes. 25% of the mangoes are bad. Find the number of good mangoes.

Total mangoes ,= Two dozen = 24

Percentage of bad mangoes = 25%

No. of bad mangoes = 25 % of 24 = $\cancel{24} \times \frac{\cancel{25}}{\cancel{100}} = 6 \text{ mangoes.}$

No of good mangoes = 24 – 6 = 18 mangoes.

Thus, **18** mangoes are good.



PERCENTAGE

EXERCISE 13 B

5. In a quiz competition , Amit answered 80% of questions correctly. If he was asked 35 questions , how many questions he got correct?

Total questions asked , = 35

Percentage of correct answers = 80 %

$$\text{No. of correct answers} = 80 \% \text{ of } 35 = \frac{35 \times 80}{100} = 28$$

Thus, Amit got **28** correct answers.



PERCENTAGE

EXERCISE 13 B

6. Abhishek got 684 marks out of 900 marks. Express this as percentage.

Total marks = 900

Marks secured = 684

$$\text{His percentage of marks} = \frac{\cancel{684}}{\cancel{900}} \times \cancel{100} = 76\%$$

Thus, Abhishek got **76 %**.



EXERCISE 13 B

7. Rakesh got 20 out of 25 in English, 31 out of 40 in Hindi and 65 out of 80 in Maths. In which subject his percentage of marks is the best?

Total marks in English = 25

Marks got in English = 20

$$\text{Percentage in English} = \frac{20}{25} \times \frac{100}{100} = 80\%$$

Total marks in Hindi = 40

Marks got in Hindi = 31

$$\text{Percentage in Hindi} = \frac{31}{40} \times \frac{100}{100} = \frac{155}{2} = 77.5\%$$

Total marks in Maths = 80

Marks got in Maths = 65

$$\text{Percentage in Maths} = \frac{65}{80} \times \frac{100}{100} = \frac{325}{4} = 81.25\%$$

Thus, in **Maths** his percentage of marks is the best.





- **Complete exercise 13 B q.no. 8 to 10 in the note book.**



Learning Outcomes

Students are able to:

- **Find the percentage of a given quality.**

THANKING YOU
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