

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 13

CHAPTER NAME : PERCENTAGE

SUB-TOPIC : EXPRESSING A FRACTION AND DECIMAL AS PERCENTAGE

CHANGING YOUR TOMORROW

Website: www.odmegroup.org Email: info@odmps.org Toll Free: 1800 120 2316

Sishu Vihar, Infocity Road, Patia, Bhubaneswar- 751024





A fractional number with hundred as the denominator is called as Percentage. The symbol of percentage

WHERE HAVE I SEEN % ?



	SUM	•	() X ✓ f _x =B5	/40		
Z	A	В	C	D	E	
1	Student	Score	Percentage			
2	Ralph	38	95.0%			
3	Amy	31	77.5%			
4	Fatima	35	87.5%			
5	Yeong	37	=B5/40			
6						
7						







b. 0.8974 = 0.8974 x 100 = 89 . 74 %



100

FINDING FRACTION OR DECIMAL



a. 43 % =
$$\frac{43}{100}$$

b. 66 % =
$$\frac{66}{100}$$

DIVIDE 100







1. Express the following as percentage.

a.
$$\frac{37}{100} = 37\%$$

b.
$$\frac{18}{100} = 18\%$$

2. Express the following as fraction with 100 as denominator.

a. 41%=
$$\frac{41}{100}$$

b.
$$56\% = \frac{56}{100}$$





3. Express the following as percentage.

a.
$$\frac{1}{4} = \frac{1}{4} \times \frac{25}{100} = 25\%$$

b.
$$\frac{9}{10} = \frac{9}{10} \times \frac{10}{100} = 90\%$$

4. Express the following as fraction in its lowest term.

a.
$$38\% = \frac{38}{100} = \frac{19}{50}$$







5. Express the following as decimal fraction

a.
$$13\% = \frac{13}{100} = 0.13$$

b.
$$24\% = \frac{24}{100} = 0.24$$





LEARNING OUTCOME :

Enable the students

- To convert fractions to percentage
- To convert decimals to percentage



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- 6. Express the following as percentage.
- a. 0.58= 0.58 X 100 = 58%
- b. 0.483 = 0.483X 100 = 48.3%







- 7. Which of the following is equivalent to 5%?
- i. 0.5 ii. 0.05 iii. 5 iv. 0.005



8. Which of the following is equivalent to 12.5%?



$$\frac{12.5}{100} = \frac{125}{10} \times \frac{1}{100} = \frac{125}{1000} = 0.125$$







9. Which of the following is equivalent to 7.5?

i. 75 % ii. 750% iii. 0.75% iv. 7.5 %

7.5 x 100 = 750%

10. Which of the following is equivalent to 6.08?

i. 60.8 %

ii. 6.08%

iii. 608% iv. 0.608%

6.08 x 100 = 608%







Students are able to:

- □ Find the percentage of a given fraction
- □ Find the percentage of a given decimal.
- □ Find the fraction if percentage is given.
- □ Find the decimal if percentage is given.



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SUB-TOPIC : TO FIND PERCENTAGE OF A GIVEN QUANTITY.

EXERCISE 13 B Q.NO. 1 & 2

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To find the percentage :

- 1. Convert the percentage as fractions.
- 2. Then multiply the given quantity.









b. 19% of 600 =
$$\frac{19}{10}$$
 $\times \frac{6}{600}$ = 114
0

c. 21% of ₹1800 =
$$\frac{21}{16}$$
 X 1800 = ₹378
0







2. Express

b. 20 as percentage of 25
$$= \frac{20}{25} \times \frac{4}{190} = 80\%$$

c. 6cm as percentage of 1 m =
$$\frac{6}{100}$$
 X 100 = 6%

d. 5 cm as percentage of 2 m
$$\frac{5}{200}$$
 X $100 = 2 \frac{1}{2}$ %





EXERCISE 13 B

2. Express

$$\frac{12}{50} \times 100 = 2\frac{2}{5}\%$$

f. 10 L as percentage of 15 L=
$$\frac{10}{15} \times 100 = \frac{20}{3} = \frac{66}{3} \frac{2}{3} \%$$







Complete exercise 13 B Q.No.1 & 2 bit h and i in the notebook.





Students are able to:

□ Find the percentage of a given quality.



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SUB-TOPIC : WORD PROBLEMS

EXERCISE 13 B Q.NO.3 TO 7

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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 = 50No. of girls = 30Percentage of girls=

$$\frac{30}{50} \times 100 = 60\%$$







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.



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

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

Thus, **18** mangoes are good.

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 %

No. of correct answers = 80 % of 35 = $35 \times \frac{7}{100} = 28$

Thus, Amit got 28 correct answers.

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

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 Percentage in English $= \frac{20}{-25} \times \frac{4}{100} =$ 80% Total marks in Hindi = 40 Marks got in Hindi = 31 Percentage in Hindi = $\begin{array}{c} 31 \\ 2 \\ \hline 40 \\ \end{array}$ X $\begin{array}{c} 5 \\ 100 \\ \hline 2 \\ \end{array}$ = 77.5 % Total marks in Maths= 80 Marks got in Maths = 65Percentage in Maths $= \frac{65}{4} \times \frac{5}{100} = \frac{325}{4} = 81.25\%$

Complete exercise 13 B q.no. 8 to 10 in the notebook.

Students are able to:

□ Find the percentage of a given quality.

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