

CLASS : 5

SUBJECT : MATHS

saathi

Date

Ch. 14. PERCENTAGES

SOLUTIONS OF EXERCISE-14B PAGE-205

(Word Problems on Percentages)

Q.1. Solution:

Total number of bananas = 220

Number of bananas were rotten

$$= 5\% \text{ of } 220 = \frac{5 \times 220}{100} = 11$$

Hence, 11 bananas were rotten. Ans

Q.2. Solution:

Maximum marks = 950

Preeti scored = 82% of 950

$$= \frac{82}{100} \times 950 = 41 \times 19 = 779$$

Hence, Preeti scored 779 marks. Ans

Q.3. Solution:

Total number of students in the school = 850

Number of students play indoor games

$$= 42\% \text{ of } 850 = \frac{42}{100} \times 850 = 21 \times 17 = 357$$

Hence, 357 students play indoor games. Ans

Q.4. Solution:

Total number of books = 2570

Number of books were discarded

$$= 20\% \text{ of } 2570 = \frac{20}{100} \times 2570 = 2 \times 257 = 514$$

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Hence, 514 books were discarded. Ans

Q.5. Solution:

28 out of 70 is equivalent to the fraction  $\frac{28}{70}$ .

$$\text{Percentage of marks Neha scored} \\ = \left( \frac{28}{70} \times 100 \right) \% = (4 \times 10) \% = 40\%$$

Hence, Neha scored 40% marks. Ans

Q.6. Solution:

630 out of 750 is equivalent to the fraction  $\frac{630}{750}$ .

Hence, the required percentage

$$= \left( \frac{630}{750} \times 100 \right) \% = (21 \times 4) \% = 84\%$$

Hence, percentage of marks scored by a student = 84% Ans

Q.7. Solution:

Population of the village = 3,250

Number of males in the village

$$= 52\% \text{ of } 3,250 = \frac{52}{100} \times 3,250 = 26 \times 65 = 1,690 \text{ Ans(i)}$$

Thus, number of females in the village =  $3,250 - 1,690 = 1,560$  Ans(ii)

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Q.8. Solution:

Percentage of the students are present = 95%  
 Thus, percentage of the students are absent  
 =  $(100 - 95)\% = 5\%$

We have, 5% of the total students = 2

$$\text{So, } \frac{5}{100} \times (\text{Total students}) = 2$$

$$\text{Thus, total students} = 2 \div \frac{5}{100}$$

$$= \frac{2 \times 100}{5} = 2 \times 20 = 40$$

Hence, the strength of the class is 40. Ans

Q.9. Solution:

We have, 72% of the total marks = 1,044

$$\text{So, } \frac{72}{100} \times (\text{the total marks}) = 1,044$$

$$\text{Thus, the total marks} = 1,044 \div \frac{72}{100}$$

$$= \frac{1044 \times 100}{72} = 58 \times 25 = 1450$$

Hence, the maximum marks = 1450. Ans

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Q.10. Solution:

Total number of students in the school = 975.

Number of girls = 312

∴ Number of boys =  $975 - 312 = 663$

Thus, percentage of boys in the school

$$= \left( \frac{663 \times 100}{975} \right) \% = (17 \times 4) \% = 68\% \text{ Ans}$$

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Q.6. (1) Solution:

Total number of students in the class = 65

Number of boys = 60% of 65

$$= \frac{60}{100} \times 65 = 3 \times 13 = 39$$

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Thus, number of girls in the class =  $65 - 39 = 26$ . Ans

(2) Solution:

Monthly earnings of a worker = ₹ 1,850

Amount spent by him = 80% of ₹ 1,850

$$= \frac{80}{100} \times ₹ 1850 = 8 \times ₹ 185 = ₹ 1,480$$

Thus, amount saved by him =  $₹ 1,850 - ₹ 1,480 = ₹ 370$

Hence, he saves ₹ 370 per month. Ans

8.6.

(3) Solution:

Total amount = £6,200

Thus, commission of the salesman

$$= 3\% \text{ of } £6,200 = \frac{3 \times £6200}{100}$$

$$= 3 \times £62 = £186. \underline{\text{Ans}}$$

(4) Solution:

We have, 15% of the total monthly income = £672

$$\text{So, } \frac{15}{100} \times (\text{total monthly income}) = £672$$

Thus, the total monthly income =  $£672 \div \frac{15}{100}$ 

$$= \frac{£672 \times 100}{15} = £224 \times 20 = £4,480$$

Hence, the total monthly income of a man is  $£4,480. \underline{\text{Ans}}$ 

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Note: Dear students, please write down the solutions in Maths class work copy.

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