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Changing your Tomorrow

PERCENT AND PERCENTAGE

PERIOD 4

SUBJECT : MATHEMATICS
CHAPTER NUMBER: 7
CHAPTER NAME : PERCENT AND PERCENTAGE

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Learning outcome

The children will be able calculate percentage problems (HOTS)..

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Previous knowledge:

1) 5% pupil in a town died due to some diseases and 3% of the remaining left the town. If 2, 76, 450 pupil are still in the town; find the original number of pupil in the town.
2) A's income is 25% more than B's. Find, B's income is how much percent less than A's.
3) Mona is 20% younger than Neetu. How much percent is Neetu older than Mona?

Exercise-7(C)

Question 1.
A bag contains 8 red balls, 11 blue balls and 6 green balls. Find the percentage of blue balls in the bag.

Exercise-7(C)

Total ball = 8 + 11 + 6 = 25

Blue balls = 11

$\therefore$ Reqd. percentage = $\frac{11}{25} \times 100 = 44\%$

Exercise-7(C)

Question 2.
Mohan gets Rs. 1, 350 from Geeta and Rs. 650 from Rohit. Out of the total money that Mohan gets from Geeta and Rohit. what percent does he get from Rohit?.

Exercise-7(C)

Total money received = Rs. (1350 + 650)
= Rs. 2000

Amount received from Rohit = Rs. 650

$$\therefore \text{ Reqd. percentage } = \frac{650}{2000} \times 100 = 32.5\%$$

Exercise-7(C)

Question 4.
A number is first increased by 20% and the resulting number is then decreased by 10%. Find the overall change in the number as percent.

Exercise-7(C)

Let the original number = 100

Increased by 20%

$\therefore$ New number = 100 + 20 = 120

Decreased by 10% = $\frac{120 \times 10}{100} = 12$

$\therefore$ New number = 120 – 12 = 108

Overall change = 108 – 100 = 8

Reqd. percentage = $\frac{8}{100} \times 100 = 8\%$ (increase)

Exercise-7(C)

Question 5.
A number is increased by 10% and the resulting number is again increased by 20%. What is the overall percentage increase in the number?

Exercise-7(C)

Let the number be = 100

Increased by 10%

$\therefore$ New number = 100 + 10 = 110

Increased by 20%

$$\therefore \text{ Net increase } = \frac{110 \times 20}{100} = 22$$

$\therefore$ New number = 110 + 22 = 132

Overall change = 132 – 100 = 32 (increase)

$$\therefore \text{ Increase \% } = \frac{32}{100} \times 100 = 32\%$$

Home Assignment

Exercise 7(C) - 1 to 5

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THANKING YOU

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