Cosmo School

Name: *Class: 5* *Section:* *Time: 40 Minutes*

Subject: Math *Topic: Average* *Marks: 20*

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1. Write the correct answer in your answer script: **1 × 4 = 4**

a. What is the average of 10, 20, 40 and 50?

Ans: 30.

b. What is average?

Ans: The average of a group of numbers of the same kind, is a single number which represents the group.

c. The average age of three sons and their father is 17 years old, what is the summation of their age?

Ans: 68 years.

d. The weight of 6 books is 924 grams. Find the average weight of these books?

Ans: 154 g.

2. The average age of father and 3 sons is 17 years. Father age is 38 years.

a. What is the sum of father and 3 sons age? **2**

b. Find the sum of 3 sons' age. **3**

c. If the average age of mother and 3 sons is 15 years, what is the age of mother? **3**

Solution:

a) Given,

Average age of father and 3 sons = 17 years

Number of quantities = 3+1 = 4

∴ The sum of father and three sons age = Average × Number of quantities

$= (17 \times 4)$ years

$= 68$ years

Ans : 68 years.

b) From ‘a’ we get,

The sum of father and three sons age = 68 years

Father’s age = 38 years

∴ Age of three sons’ = 30 years

Ans: 30 years.

c) From ‘b’ we get,

Total age of three sons’ = 30 years

Given,

Average age of mother and 3 sons = 15 years

Number of quantities = 3+1 = 4

∴ The sum of mother and three sons’ age

$=$ Average $\times$ Number of quantities

$= (15 \times 4)$ years

$= 60$ years

∴ The age of mother $= (60 - 30)$ years

$= 30$ years

Ans: 30 years.

3. The price of 7 tennis ball is 406 taka. The average price of 1st 3 balls is 58 taka and last 3 balls are 55 taka.

a. What is the average price of the balls? **2**
b. What is the price of 4th ball? **3**
c. Difference between the total price of 1st 3 balls and last 3 balls is the average price of 10 pens. What is the total price of 10 pens? **3**

Solution:

a) Total price of 7 tennis ball = 406 taka

∴ Average price = (406 ÷ 7) taka
= 58 Taka

Ans: 58 Taka.

b) Given,

The average price of 1st 3 balls is 58 taka.
The average price of last 3 balls are 55 taka.

∴ Total price of 1st 3 balls = Average × Number of quantities
= (58 × 3) Taka
= 174 Taka

∴ Total price of last 3 balls = Average × Number of quantities
= (55 × 3) Taka
= 165 Taka

∴ Total price of 1st 3 balls and last 3 balls = (174+165) Taka
= 339 Taka

∴ Price of 4th ball = (406-339) Taka
= 67 Taka

Ans: 67 Taka.

c) From 'b' we get,

Total price of 1st 3 balls = 174 Taka
Total price of last 3 balls = 165 Taka

∴ Difference between the total price of 1st 3 balls and last 3 balls
= (174-165) Taka
= 9 Taka

According to the question, the average price of 10 pens = 9 Taka

$\therefore$ Total price of 10 pens = Average $\times$ Number of quantities

= (9 $\times$ 10) Taka

= 90 Taka

Ans: 90 Taka.