Assignment 7

Due on 2008-09-14, 2008-09-15.

1. a. Find the average of the following sequence of numbers:
   
   Sum of the sequence = 45
   Number of elements = 9
   
   Average = \[ \frac{45}{9} = 5 \]

   b. Find the average of the following sequence of numbers:
   
   Sum of the sequence = 54
   Number of elements = 6
   
   Average = \[ \frac{54}{6} = 9 \]

   c. Find the average of the following sequence of numbers:
   
   Sum of the sequence = 60
   Number of elements = 8
   
   Average = \[ \frac{60}{8} = 7.5 \]

   d. Find the average of the following sequence of numbers:
   
   Sum of the sequence = 75
   Number of elements = 10
   
   Average = \[ \frac{75}{10} = 7.5 \]

2. a. If the number of students registered in a class is 50, the average age of the students is 20, find the total number of students in the class.

   Total number of students = \[ 50 \times 20 = 1000 \]

   b. If the number of students registered in a class is 60, the average age of the students is 21, find the total number of students in the class.

   Total number of students = \[ 60 \times 21 = 1260 \]

3. a. If the number of students registered in a class is 40, the average age of the students is 18, find the total number of students in the class.

   Total number of students = \[ 40 \times 18 = 720 \]

   b. If the number of students registered in a class is 50, the average age of the students is 19, find the total number of students in the class.

   Total number of students = \[ 50 \times 19 = 950 \]

4. a. Find the average of the following sequence of numbers:
   
   Sum of the sequence = 30
   Number of elements = 6
   
   Average = \[ \frac{30}{6} = 5 \]

   b. Find the average of the following sequence of numbers:
   
   Sum of the sequence = 45
   Number of elements = 9
   
   Average = \[ \frac{45}{9} = 5 \]

   c. Find the average of the following sequence of numbers:
   
   Sum of the sequence = 60
   Number of elements = 8
   
   Average = \[ \frac{60}{8} = 7.5 \]

   d. Find the average of the following sequence of numbers:
   
   Sum of the sequence = 75
   Number of elements = 10
   
   Average = \[ \frac{75}{10} = 7.5 \]