CBSE Board
Class VII Mathematics
Term I
Sample Paper 1

Time: 1 hour   Total Marks: 25

General Instructions:

1. **All** questions are **compulsory**.
2. The question paper consists of **14** questions and it is divided into **three sections** A, B and C.
3. **Section A** comprises of **6** questions carrying 1 mark each.
4. **Section B** comprises of **5** questions carrying 2 marks each.
5. **Section C** comprises of **3** questions carrying 3 marks each.
6. Question numbers **1 to 6** in **Section A** are multiple choice questions where you are to select **one** correct option out of the given four.

Section A
(Questions 1 to 6 carry 1 mark each)

1. If a, b and c are integers then, according to distributive law: [1]
   A. $a \times (b + c) = a \times b + a \times c$
   B. $a \times (b + c) = a + b \times a + c$
   C. $a \times (b + c) = a \times b \times a \times c$
   D. $a \times (b + c) = a \times c - a \times b$

2. Look at the figure below: [1]
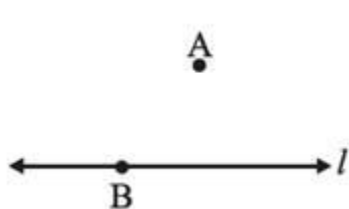
   To draw a line parallel to l through A, the first step will be:
   A. Join A to l
   B. Join A to B
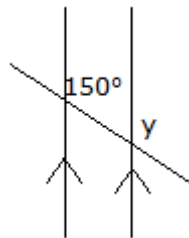   C. Draw perpendicular from A on l
   D. Draw a line through A.

3. A number is chosen at random from 1 to 5. What is the probability that the number chosen is odd? [1]

    A. $\dfrac{2}{5}$

    B. $\dfrac{3}{5}$

    C. $\dfrac{1}{4}$

    D. $\dfrac{1}{6}$

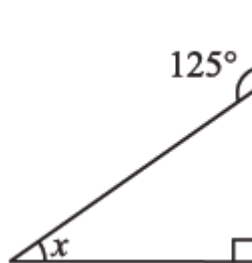**4.** The solution of the equation $3x + 4 = 25$ is [1]

    A. 7
    B. 8
    C. 9
    D. 6

5. In the figure given below, the measure of y is: [1]

    A. 30°
    B. 120°
    C. 130°
    D. 150°

6. The measure of angle x, in the given figure is: [1]

    A. 45°
    B. 30°
    C. 60°
    D. 35°

Section B
### (Questions 7 to 11 carry 2 marks each)

7. What is the measure of complement of each of the following angle?   [2]
   (a) 45° (b) 54° (c) 65°

8. Write the following equations in statement form: [2]
   (a) $6n + 4 = 10$

   (b) $\dfrac{y}{7} - 3 = 9$

9. Raju has solved $\dfrac{2}{4}$ part of an exercise while Sameer solved $\dfrac{1}{2}$ part of it. Who has solved

   more?   [2]

10. How many angles are formed when 2 lines intersect?   [2]

11. How many $1\dfrac{1}{4}$ feet long strips of ribbon can be cut from a ribbon that is $7\dfrac{1}{2}$ feet long?   [2]

Section C
(Questions 12 to 14 carry 3 marks each)

12. The bar graph given below shows the sales of books (in thousands) from six branches of a publishing company during two consecutive years 2000 and 2001. [3]
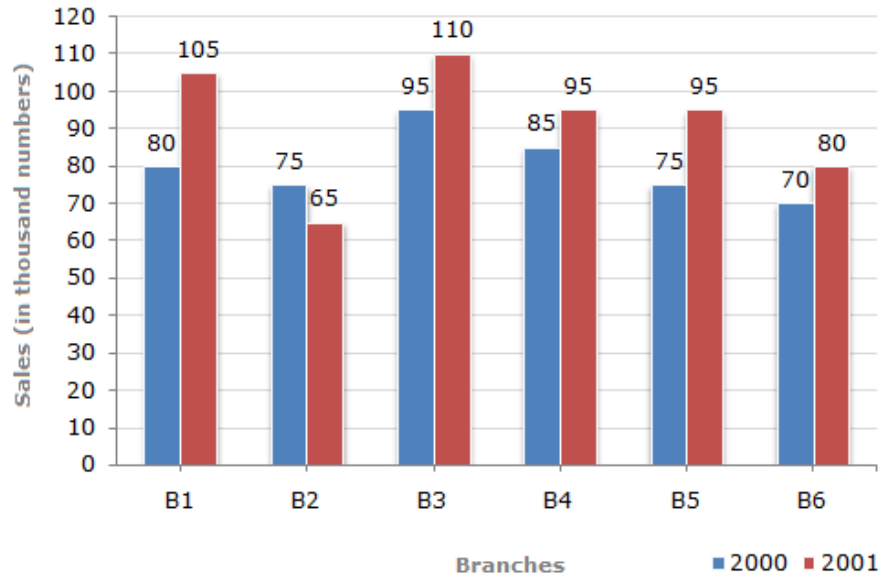
(1) What is the ratio of the total sales of branch B2 for both years to the total sales of branch B4 for both years?
(2) What is the average sale of all the branches (in thousand numbers) for the year 2000?
(3) Total sales of branch B6 for both the years is what percent of the total sales of branches B3 for both the years?

13. Let ABC be an isosceles triangle in which AB = AC and BD is perpendicular to AC.Then, prove that $BD^2 - CD^2 = 2AD.CD$. [3]
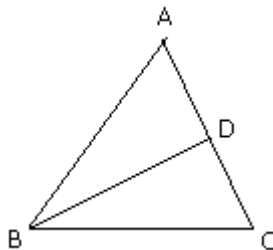
14. Name all the corresponding parts of the congruent figures given below: [3]