KENDRIYA VIDYALAYA GACHIBOWLI, HYDERABAD
MODEL PAPER 02 FOR FA – 1 (2016 – 17)
CLASS – VII
MATHEMATICS

T.T. 1:30   **M.M. 40**
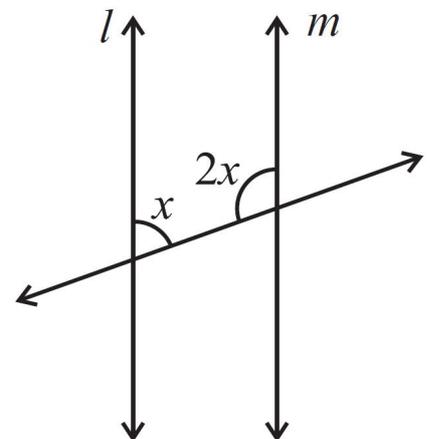
General Instructions:
1. All questions are compulsory.
2. Question paper is divided into four sections: Section A contains 4 questions each carry 1 mark, Section B contains 4 questions each carry 2 marks, Section C contains 4 questions each carry 3 marks and Section D contains 4 questions each carry 4 marks.

SECTION – A(1 marks each)

1. Evaluate: $(–31) ÷ [(–30) + (–1)]$

2. Express 235 paise as rupees using decimals.

3. Express 2598 mg in kg.

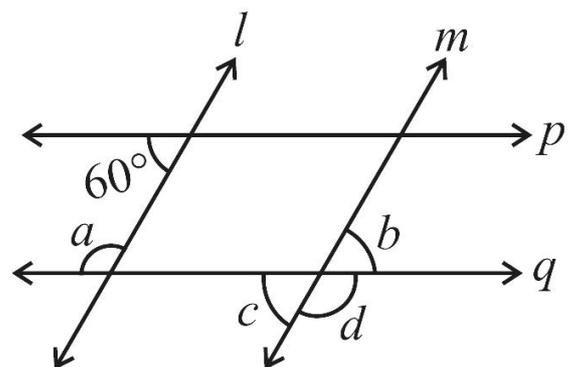4. Find the angle which is equal to its supplement.

SECTION – B(2 marks each)

5. Write down a pair of integers whose: (a) sum is –7 (b) difference is –10

6. Find the product, using suitable properties:
   (a) $15 × (–25) × (– 4) × (–10)$
   (b) $625 × (–35) + (– 625) × 65$

7. Arrange $\dfrac{1}{5}, \dfrac{3}{7}, \dfrac{7}{10}$ in descending order.

8. Find the value of x in the adjoining given figures if $l \parallel m$.
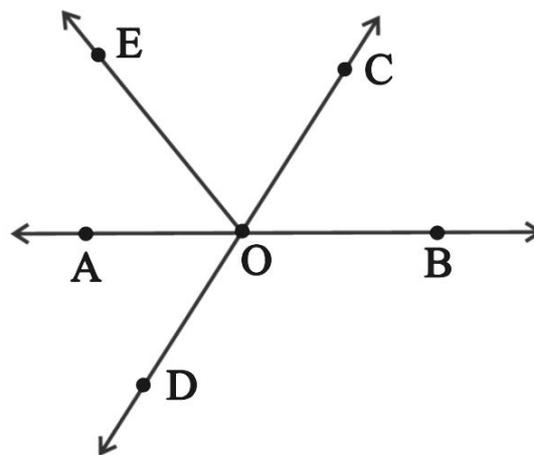

SECTION – C(3 marks each)

9. Verify the following:
   (a) $10 × [(6 + (–2)] = 10 × 6 + 10 × (–2)$
   (b) $(–15) × [(–7) + (–1)] = (–15) × (–7) + (–15) × (–1)$

10. In the adjoining figure, lines $l \parallel m$, $p \parallel q$. Find a, b, c, d

11. Sameera purchased $3\dfrac{1}{2}$ kg apples and $4\dfrac{3}{4}$ kg oranges.
    What is the total weight of fruits purchased by her?
    What are the benefits of eating fruits?

12. In the adjoining figure, identify:
(i) Five pairs of adjacent angles. (ii) Three linear pairs.
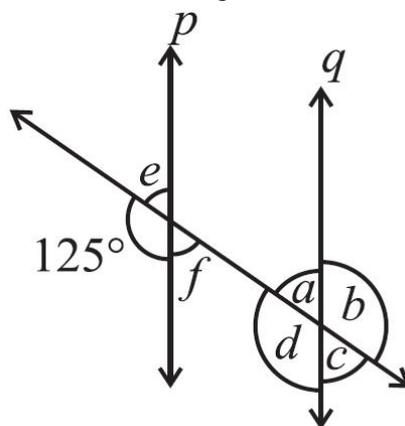(iii) Two pairs of vertically opposite angles.

SECTION – D(4 marks each)

13. In a test (+5) marks are given for every correct answer and (–2) marks are given for every incorrect answer. (i) Radhika answered all the questions and scored 30 marks though she got 10 correct answers. (ii) Jay also answered all the questions and scored (–12) marks though he got 4 correct answers. How many incorrect answers had they attempted? What you will do to get very good marks in all subjects?

14. In a class of 40 students $\frac{1}{5}$ of the total number of students like to study English, $\frac{2}{5}$ of the total number like to study mathematics and the remaining students like to study Science.
(i) How many students like to study English?
(ii) How many students like to study Mathematics?
(iii) What fraction of the total number of students like to study Science?

15. In the adjoining figure, $p \parallel q$. Find the unknown angles.

16. Ashok donated one equilateral triangular plot for hospital and one rectangular plot for school to his native village.
a) The side of an equilateral triangle is 3.5 cm. Find its perimeter
b) The length of a rectangle is 7.1 cm and its breadth is 2.5 cm. What is the area of the rectangle?
c) What value is depicted from this?