

Bhavan's Tripura Vidyamandir
1st Periodic Assessment: (2025-2026)

Class:- 7

Time:- 2 Hours

Name of the student :

Subject: Mathematics

Total : 50 Marks

Roll : Sec:

General Instruction:

- **Section A** contains 5 questions (1 to 5) each carries 1 mark.
- **Section B** contains 5 questions (6 to 10) each carries 2 marks.
- **Section C** contains 6 questions (11 to 16) each carries 3 marks.
- **Section D** contains 3 questions (17 to 19) each carries 4 marks.
- **Section E** contains 1 case-study (20 to 24) each carries 1 mark.

Section A

1. What is the measure of the complement of 45°
a) 45° b) 55° c) 75° d) 90°
2. The product of 0.0025×10 is
a) 0.000025 b) 0.025 c) 0.00025 d) 0.25
3. $(-30) \div 10 =$
a) -3 b) 3 c) 5 d) -5
4. The reciprocal of $\frac{12}{7}$ is
a) $\frac{12}{7}$ b) $-\frac{12}{7}$ c) $\frac{7}{12}$ d) $-\frac{7}{12}$
5. What will be the sign of the product of 123 negative integers and 3 positive integers?
a) Positive b) Negative
c) Neither positive nor negative d) None of these

Section B

6. A two-wheeler covers a distance of 55.3 km in one litre of petrol. How much distance will it cover in 10 litres of petrol?
7. Find the product i) $(-1) \times (-1) \times (-1) \times \dots$ 101 times
ii) $(-7) \times (5) \times (-2)$
8. i) If two angles are complementary, then the sum of their measures is _____.
ii) If two adjacent angles are supplementary, they form a _____.
9. If an angle measure 88° , find the measure of an adjacent angle so that the exterior arms of the two angles form a straight line.
10. Find $4 \times (-2)$ using number line. (Use scale and pencil only)

Section C

11. Subhra purchased 4.250 kg rice and 3 kg 500 g flour. There was a small hole in the bag of rice and some rice was lost on the way. On reaching home, Subhra found that he was left with total of 5kg 800 g rice and flour. How much rice was lost?
12. $101 - [144 \div (12 \times 12) - (-4) - \{5 - \overline{8 - 3}\}]$
13. The morning temperature at Amritsar was 3 degrees below 0°C , in the afternoon the temperature increases by 7°C . Find the afternoon temperature.
14. Find: i) 11.2×0.15
ii) $2.73 \div 1.3$
15. An elevator descends into a mine shaft at the rate of 6 m/min. If the descent starts from 10 m above the ground level, how long will it take to reach -350 m.

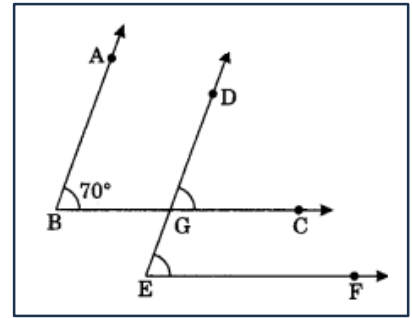
16. In the given figure, the arms of two angles are parallel.

If $\angle ABC = 70^\circ$, then find

i) $\angle DGC$

ii) $\angle DEF$

(Give reason for your answer)



Section D

17. A shopkeeper earns a profit of ₹1 by selling one pen and incurs a loss of 40 paise per pencil while selling pencils of her old stock.

i) In a particular month she incurs a loss of ₹5. In this period, she sold 45 pens. How many pencils did she sell in this period?

ii) In the next month she earns neither profit nor loss. If she sold 70 pens, how many pencils did she sell?

[2+2]

18. Saili plants 4 saplings, in a row, in her garden. The distance between two adjacent saplings is $\frac{3}{4}$ m.

Find the distance between the first and the last sapling.

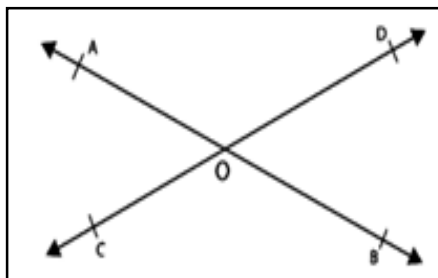
19. A man gave $\frac{2}{5}$ of his property to his son, $\frac{1}{3}$ of his property to his daughter, and rest to his wife.

What fraction of the property did the wife get?

Section E

Devansh's and his friends were making a kite. While folding the sticks, they noticed various angles being formed. Devansh placed two sticks to form an 'X' shape and called it a pair of intersecting lines. His friend Meera pointed at the angles and said some of them looked equal.

Look at the figure below and answer the following questions:



In the figure above, two lines AB and CD intersect at point O.

20. Name a pair of vertically opposite angles.

21. If $\angle AOC = 45^\circ$, find the measures of $\angle DOB$.

22. Are $\angle AOB$ and $\angle COD$ adjacent angles?

23. What kind of angle pair is formed by $\angle AOD$ and $\angle DOB$?

24. If line AB is a straight line, what is the sum of $\angle AOD$ and $\angle DOB$?