

INTERNATIONAL INDIAN SCHOOL- DAMMAM
SUMMATIVE ASSESSMENT – II (MARCH 2016)

CLASS:VI
SUBJECT: MATHEMATICS

SET-A

MAX. MARKS:90
TIME:3 HOURS

Instructions: -

1. All questions are compulsory.
2. The question paper consists of 34 questions divided in to 4 sections- Section A, Section B, Section C, Section D.
3. Section A contains 8 questions of 1 mark each, Section B contain 6 questions of 2 marks each, Section C contains 10 questions of 3 marks each and Section D contains 10 questions of 4 marks each.
4. There is no overall choice. However internal choice has been given in one question each in Section B, Section C and Section D.

SECTION –A (1 x 8 = 8)

1. Find the perimeter of a regular pentagon of side 6 cm.
2. Is $(t - 7) = 5$ an equation with variable 'x'? Justify your answer.
3. A triangular pyramid is also known as _____.
4. How many one-thirds are there in a whole?
5. If two ratios are _____, then they are in proportion.
6. 7 times of 'y' subtracted from 50 can be expressed as _____.
7. Express 'two ones and five tenths' as decimal.
8. A rhombus with four right angles is a _____.

SECTION –B (2 x 6 = 12)

9. Do the ratios 15 cm to 2m and 10 seconds to 3 minute form a proportion?
10. Subtract 1.32 from 2.58
11. Draw an angle of measure 110° .
12. Plot $\frac{1}{4}$, $\frac{4}{4}$, and $\frac{7}{4}$ on a number line.
13. The length of a football ground is 2 more than thrice its width. Express the length of the ground in terms of its width.
14. Two sides of a triangle are 14 cm and 10 cm. Find the third side if its perimeter is 39 cm.

Or

14. Find the length of side of the square whose perimeter is 28 cm. Also find its area.

SECTION -C (3 x 10 = 30)

15. Arrange $\frac{2}{3}$, $\frac{1}{2}$ and $\frac{5}{6}$ in ascending order.
16. Name the triangle in two different ways with reason.
 $\triangle ABC$ where $AB = 8\text{cm}$, $BC = 15\text{ cm}$ and $AC = 17\text{ cm}$, angle $A = 60^\circ$, angle $B = 90^\circ$ & angle $C = 30^\circ$.
17. Divide Rs. 120 in the ratio 2: 3 between Kiran and Kirti.
18. . A floor is 6m long and 5 m wide. A square carpet of side 4m is laid on the floor. Find the area of the floor that is not carpeted.
19. a) Express 2 g as kg using decimals
b) Write 2 rupees 5 paise and 2 rupees 50 paise in decimals.
- Or
19. Find the sum of 280.69 , 25.2 , and 38.
20. Find the cost of fencing a rectangular park of length 75 m and width 50 m with 4 rows of wire at the rate of Rs.15 per meter.
21. Pick out the solution from the brackets. Show that the other values do not satisfy the equation.
 $10y = 80$ (0, 10, 8)
22. Draw a line segment PQ of length 8cm. Construct its perpendicular bisector. Let the perpendicular bisector meet PQ at O. Measure PO and OQ.
23. There are 22 girls and 18 boys in a class.
Find: i) ratio of the number of girls to the total students in the class.
ii) ratio of total students to number of boys in the class.
24. a) Where will the hour hand of a clock stop if it starts from 6 and turns through 2 right angles?
b) What is the angle name for half a revolution?
c) What can you say about the measure of the angles of a triangle whose all three sides are of equal length?

SECTION -D (4 x 10 = 40)

25. Construct an angle of measure 135° .

Or

25. Construct an angle of measure 120° .

26. a) Express $\frac{4}{5}$ as decimal (1m + 3m)

b) Salim read 3 hours 45 minutes and Radha read 240 minutes. Who read more and by how much?

27. A car travels 90 km in $2\frac{1}{2}$ hours.

(i) How much time is required to cover 30 km with the same speed?

(ii) Find the distance covered in 2 hours with the same speed.

28. How many tiles whose length and breadth are 12 cm and 5 cm respectively will be needed to fit in a rectangular region whose length is 100 cm and breadth is 144 cm? What will be the total cost of tiles if cost of one tile is Rs.2 ?

29. a) Which is greater $\frac{4}{5}$ or $\frac{5}{8}$? (use L.C.M method) (3m + 1m)

b) Write equivalent fraction of $\frac{36}{48}$ with denominator 12.

30. Draw a circle of radius 4 cm. Draw any two of its chords. Construct the perpendicular bisectors of these chords. Where do they meet?

31. Solve by transposing method : $\frac{2}{3}(3x - 3) = 22$.

32. Subtract $2\frac{4}{9}$ from $6\frac{1}{3}$

33. Pinky runs around a square park of side 75 m, Bob runs around a rectangular park with length 160m and breadth 105 m . Who covers more distance and by how much?

34. Priya had Rs. 100 with her. She bought chocolates for Rs. 32.85 and ice-cream for Rs. 27.50. What amount is left with her after making the payment?