Karnataka Board Class 7 Maths Model Question Paper

Time : 1 Hour 30 Minutes	Subject : Mathematics Medium : English	Marks : 40

I. In the following mathematical statements, fill in the blanks with suitable answer. **[3 × 1 = 3]**

1. In $\frac{-1}{4}$ and $\frac{1}{4}$ the large rational number is _____ .

2. If a natural number is denoted by n, its successor is _____ .

3. The decimal fractions to percent form of 6.3 is _____ .

II. Match the following : **[4 × 1 = 4]**

	'A'		'B'
4.	$a^m \times a^n$	a)	a^{m-n}
5.	$\frac{a^m}{a^n}$	b)	a^{m+n}
6.	$(a \times b)^m$	c)	$\frac{a^m}{b^m}$
7.	$\left(\frac{a}{b}\right)^m$	d)	$a^m \times b^m$

Question Number	Answers
4.	
5.	
6.	
7.	

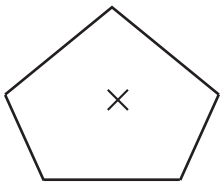
[5 × 1 = 5]

III. Solve the following problems.

8. Write the formula used to calculate perimeter of the circle when radius is given.

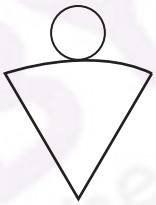
9. State the number of line symmetry of regular hexagon.

10. Write the order of the rotational symmetry of the given figure.



11. How many vertices are there in a cube?

12. Name the solid represented by the following net.



IV. Solve the following problems. [10 × 2 = 20]

13. Represent the following rational numbers on number line.

i) $+\frac{3}{4}$ ii) $-\frac{3}{4}$

14. Simplify : $(5^{20} \div 5^{5}) \times 5^{3}$

15. Find the sum of following algebraic expressions.

p – 8pq, 3pq – q and q – p

16. Express the number pattern given below in an algebraic expression.
5, 9, 13, 17 .....

17. The cost of 3 kg of sugar is ₹90. Find the cost of 8 kg of sugar.

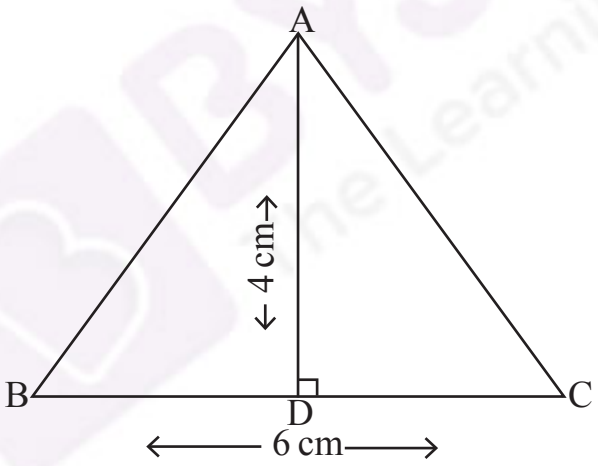
18. If 9 students are absent out of 45 students, then calculate the percentage of absenties.

19. A radio is bought for ₹800 and sold it for ₹ 600. Calculate the loss percent.

20. Some amount yield ₹ 500 interest at the rate of 5% p.a for two years. Calculate the principal.

21. The perimeter of a rectangle is 150 cm. If its length is 50 cm, then find the area of rectangle.

22. In Δ ABC, given $\overline{BC}$ = 6 cm, and $\overline{AD}$ = 4 cm. Calculate the area of the triangle.



V. Answer the following questions in four sentences each. **[2 × 4 = 8]**

23. Perimeter of the circle is 220 cm. Calculate the radius and area of the circle.

24. Construct Δ ABC. Where AB=6cm, AC=4cm and $\angle BAC = 60^\circ$