

KENDRIYAVIDYALAYA, KHAMMAM

Half yearly examination - 2017-18

Class : VII					subject: Mathematics						Time: 2 ½ hrs		
General Instructions:													
	1. The Question paper is divided into four sections.												
		Section A [06 Marks											
		Section	В	[12 N	larks]								
		Section	С	[30 N	/larks]								
		Section	D	[32 N	/larks]								
	2.	. All questions are compulsory.											
	3. All questions of a particular section must be attempted in the correct order.												
						SECTI	ON - A						
I	Ch	noose the correct option. $6 \times 1 = 6$											
	1. The common end point where two rays meet to form an angle is called []	
		a) vertex b)arm c)ray					d) line segment						
	2.	Multiplicative inverse of 3/8 is								[]		
		a) 8/3	b)11/3 c)1/3 d				d)None of these.						
	3.	Linear pair	pair of angles are							[]		
	a) Complementary angles b)supplementary angles c)reflex angles d)right angle												
	4.	a,b,c are in	tegers	then a	x(b+c)=						[]
		a) axb+c		b)axb	XC	c)axb+	-axc		d)axb-	axc			
	5.	The simples	st form	of 33/	′55 is							[]
		a) 3/5	b) 5/3	3 c)33	3/5	d)1/5							
	6.	write the ration a) 5/2	-	cal fo c)2/5		this fr d) 5	action 5	/2		[]		

SECTION – B

Ш Answer the following questions. Each question carries 2 marks. 6x2=12

- 7. Represent -3/2 on number line.
- 8. Complete the pattern for four more -1/4, -2/8, -3/12
- 9. ABC is a triangle right angled at C. If AB=25 cm AC=7 cm find BC
- 10. Define complementary angle.
- 11. Solve 10 P + 10 = 100
- 12. Find the mode of the data 13, 16, 12, 14, 19, 12, 14, 13, 14.

SECTION - C

Ш Answer the following questions. Each question carries 3 marks. $10 \times 3 = 30$

- 13. Find a) $0.4 \div 2$ b) $3.97 \div 10$
- 14. Multiply a) 3/2 x 5/11 b) 5/6 x 12/13
- 15. Solve a) 4+5 (p-1)=34 b) 16=4+3t
- 16. Construct 3 equations starting with x=2.
- 17. Draw the figures for the following a) parallel lines b) intersecting lines
- 18. Find the value of x. a) angle A=x, angle B=50°, angle C=60° b)angle X=30°, angle Y=110°, angle Z=x
- 19. Define congruence of triangles with an figures.
- 20. Find the ratio of a) 3 Km to 300 mtrs. B) 30 days to 36 hours
- 21. I bought a TV for 10,000 Rs and sold it at profit of 20%. How much money do I get for it?
- 22. List five rational numbers between -1 and 0.

SECTION - D

IV Answer the following questions. Each question carries 4 marks. $8 \times 4 = 32$

- 23. Define rational number, positive rational number and negative rational number with example.
- 24. The runs are scored in a Cricket match by 11 players is as follows.
 - 6,15,120,50,100,80,10,15,8,10,15. Find the mean and mode?
- 25. Draw and mention a)Integer angles b)exterior angles c)pair of corresponding angles.
- 26. A tree is broken at a height of 5 metres from the ground and its top touches the ground at a distance of 12 metres from the base of the tree . find the original height of tree?.
- 27. Write about SSS, ASA and SAS congruence criteria.
- 28. Convert the following fractional numbers to percent. A) 5/4 B)3/10 c) 2/5 d) 1/25
- 29. Find the whole quantity if a) 5 % of it is 600 b) 8 % of it is 40 Liters.
- 30. Define a)Proper fraction b)improper fraction c) like fraction d) Unlike fraction.