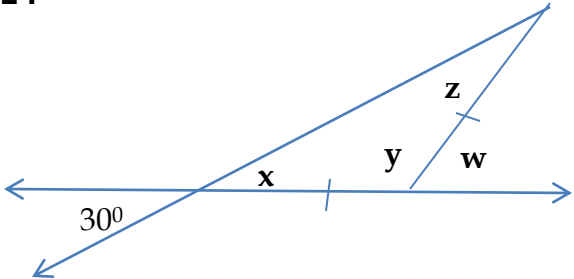|	SECTION A	
Qns		Marks
1.	**Area of a parallelogram is 500 m² .The base of the parallelogram is 50 m. Find its height.** A=b×h 500=50×h ,Therefore h=500÷50=10m	$\frac{1}{2}+\frac{1}{2}$
2.	**Find the mean of first four odd natural numbers.** (1+3+5+7)÷4=16÷4=4	$\frac{1}{2}+\frac{1}{2}$
3.	**Write the equation for 'thrice a number when increased by 5 gives 44'.** 3x + 5 = 44	1
4.	**Find the ratio of 3km to 300m.** 3000:300 = 10:1	$\frac{1}{2}+\frac{1}{2}$
5.	**The lengths of two sides of a triangle are 7 cm and 10 cm. Between which two numbers can length of the third side fall?** Between (10 − 7) = 3cm and (10 + 7) = 17cm	$\frac{1}{2}+\frac{1}{2}$
6.	side = BC	1
	SECTION B	
7.	**Out of 40 Students 8 are absent. What percent of students are present?** No. of Students present (40 − 8)= 32 Percent of students present are $\frac{32}{40}\times100 = 80\%$	$\frac{1}{2}$ $1+\frac{1}{2}$
8.	**AREA = LENGTH x BREADTH** $= 5\frac{1}{4}\times1\frac{1}{7}$ $= \frac{21}{4}\times\frac{8}{7}$ = 168 ÷ 28 = 6 (3 x 2)	$\frac{1}{2}+\frac{1}{2}$ $\frac{1}{2}+\frac{1}{2}$
9.	(i) P(a vowel) = 5/9 (ii) P(letter D) = 1/9	1 1

10.	9y - 2 = 7
	    9y = 7+2 1 m
	    y = 9 = 1 1 m
	        9	

11.	**7 + 13 = 20 > 16** **13 + 16 = 29 > 7** **16 + 7 = 23 > 13** **Yes 7 cm , 13 cm, and 16 cm can be the sides of a triangle.**	$\frac{1}{2}$ $\frac{1}{2}+\frac{1}{2}$ $\frac{1}{2}$
12.	**(i) PR (ii) /Q (iii) FE (iv) D (½ + ½+ ½ + ½)**	
	SECTION C	
13.	**An item was sold for Rs. 540 at a loss of 10% . What was its cost price?** Cp loss sp 100 10% 90 X 540 X = $\frac{540\times100}{90}=600$	$\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}$ 1

14.	MEAN = SUM OF ALL OBSERVATION ÷ NUMBER OF OBSERVATION =414 ÷ 9 = 46 (½ + 1½ + 1)	
15.	**If the circumference of a circular disc is 132cm, find its area.** $2\pi r = 132$ $2 \times \dfrac{22}{7} \times r = 132$ $r = \dfrac{132 \times 7}{22 \times 2} = 21cm$ Area $= \pi r^2 = \dfrac{22 \times 21 \times 21}{7} = 1386cm^2$	$\dfrac{1}{2}$ 1 $1 + \dfrac{1}{2}$
16.	**Construct a △ABC, such that AB=4.5cm , BC=6cm and CA=7cm.** Draw AB=4cm Draw BC=6cm Draw CA=7cm Completing the triangle	$\dfrac{1}{2}$ 1 1 $\dfrac{1}{2}$
17.	**Draw a line AB and draw another line CD parallel to AB at a distance of 7 cm from AB.** Draw a line AB Draw a perpendicular on it . Draw an arc on the perpendicular line,7cm away from line AB. Drawing of line CD parallel to AB	$\dfrac{1}{2}$ 1 $\dfrac{1}{2}$ 1
18.	$3X - 50 = 7$ $3X = 7 + 50$ $3X = 57$ (1+½ + ½+ ½ + ½) $X = 57 \div 3$ $X = 19$	
19.	$(\dfrac{6}{9} - \dfrac{4}{9}) \times \dfrac{17}{5}$ 1m $\dfrac{2}{9} \times \dfrac{17}{5}$ 1m $\dfrac{34}{35}$ 1m	
20.	$-\dfrac{4}{5} \times \dfrac{9}{9} = -\dfrac{36}{45}$ ½ m $-\dfrac{2}{3} \times \dfrac{15}{15} = -\dfrac{30}{45}$ ½ m Any four rational numbers between them (Each ½ m)	
21.	any three equivalent R.NO: $-\dfrac{5}{7} \times \dfrac{2}{2} = -\dfrac{10}{14}$ 1m $-\dfrac{5}{7} \times \dfrac{3}{3} = -\dfrac{15}{21}$ 1m $-\dfrac{5}{7} \times \dfrac{4}{4} = -\dfrac{20}{28}$ 1m	

22.	$AB^2 = AC^2 - BC^2$
	     $= 17^2 - 8^2$
	     $= 289 - 64$
	     $= 225$
	AB × $\boxed{AB = 15}$ ×15
	Ans: The length of the other side is 15 cm
		½
		½
		½
		½
		½
		½

SECTION D		

23.	**Rs.6050 was borrowed at 5% rate of interest p.a. Find the interest and amount to be paid at the end of two years.** $\text{SI} = \dfrac{PRT}{100}$ $= \dfrac{6050 \times 5 \times 2}{100} = \text{Rs.605}$ Amount = P + SI = 6050 + 605 = Rs.6655	$\dfrac{1}{2}$ 2 $1\dfrac{1}{2}$
24.	**Construct a $\triangle$ XYZ, if it is given that XY=6cm, $\underline{/X}$ =30⁰ and $\underline{/Y}$ = 100⁰ (use ruler and compasses to construct the special angle).** Drawing line segment XY = 6cm Drawing $\underline{/X}$ =30⁰ (by using ruler and compasses) Drawing $\underline{/Y}$ = 100⁰ and completing the triangle	$\dfrac{1}{2}$ $1\dfrac{1}{2}$ 1 + 1
25.	**Solve:** $4(t + 5) = 28$ $28 \div 4 = (t + 5)$ $7 = t + 5$ $7 - 5 = t$ $2 = t$	$\dfrac{1}{2}$ 1 1 $\dfrac{1}{2}$ 1
26.	a) $\dfrac{-3}{8} + \dfrac{-5}{12}$ LCM = 24 $\dfrac{-3\times3}{8\times3} + \dfrac{-5\times2}{12\times2}$ $\dfrac{-9}{24} + \dfrac{-10}{24} = \dfrac{(-9)+(-10)}{24} = \dfrac{-19}{24}$	½ ½ ½ + ½
	b) $\dfrac{-8}{13} \times \dfrac{39}{-4}$ Cancellations Ans : 6	1 1

27.	Inner rectangle outer rectangle
	A=90 x75 ½ m L= 90+10=100 ½ m
	 A = 6750m² ½ m B =75 +10 =85 ½ m
	               A = 100 x 85 ½ m
	                  A = 8500m² ½ m
	Area of the path = 8500 - 6750 ½ m
	               = 1750 m² ½ m	

28.	The following table shows the number of girls and boys of a class who take part in different sports activities. Draw a double bar graph to represent the given data. | Sport	Basketball	Badminton	Athletics	Volleyball
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No. of Girls	12	10	8	10
No. of Boys	14	12	14	6 | **PROPER SCALE , MARKING THE AXES PROPERLY** **(½+½+ ½)** **DRAWING BARS CORRECTLY AND** **(½+½+ ½+½+ ½) FOR EACH BAR**	

29.	**Find the measure of angle w ,x, y and z .**		1
	x= 30^0 (VOA)		1
	z=30^0(Base angles of an isosceles		
	triangle are equal		1
	y=$180^0 - (30^0+30^0)$		
	=120^0		
	w= 180^0-120^0 (linear pair)		1
	=60^0		
30.	PQ = AB		
	$\underline{/Q} = \underline{/B}$		
	QR = BC		
	BY SAS CONGRUENCE RULE		
	△ PQR ≅ △ ABC (1+1 +1+ ½+½)		