	SNBP International	Section and the section of the secti								
GRADE: VI	SUBJECT: MATH	DATE: 10/03/25	TIME: 3 HRS	MARKS: 60						
SECTION A										
Q.1) Multiple cho	pice questions.			[10Q X 1M = 10M]						
1) Take Meena's	s present age to be y yea	rs, what will be her age :	5 years from now?							
a) y + 5	b) 5 – y	c) y -	- 5	d) 5y						
2) What is the de	cimal expansion of deci	$\operatorname{mal} \frac{1}{1000} \times 8$								
a) 0 . 8	b) 0.008	c) 80	000	d) 0 . 08						
3) The perimeter	of a triangle of sides 2 d	cm, 3 cm and 4 cm is								
a) 9 cm	b) 18 cm	c) 27	cm	d) 36 cm						
4) Decimal form	of 'Eleven point two th	ree five' is								
a) 11 . 25	b) 11 . 23	c) 10	1.235	d) 11.235						
5) The simplest f	form of $\frac{45}{20}$ is									
a) $\frac{9}{4}$	b) $\frac{4}{9}$	c) $\frac{9}{8}$		d) $\frac{2}{9}$						
-	of 21.04 – 13.34	8		9						
a) 8 . 7	b) 0 . 77	c) 7.7	7	d) 9.7						
		angoes are there in 5 bas								
a) 5	b) 5x	c) 62	K	d) x						
8) The equivalen	t fraction of $\frac{2}{3}$ is —									
a) $\frac{2}{4}$	b) $\frac{2}{5}$	c) $\frac{2}{6}$		$\mathbf{d})\frac{6}{9}$						
9) 9 cm 8 mm =	= cm									
a) 908	b) 9.8	c) 9.	08	d) 9 . 80						
10) Which is grea	ater?									
a) $\frac{1}{3}$	b) $\frac{1}{5}$	c) $\frac{1}{8}$		d) $\frac{1}{6}$						

SECTION B					
Q.2) Fill in the blanks.	$[5Q \times 1M = 5M]$				
1) On subtracting $\frac{3}{5}$ from $\frac{8}{5}$, the result is $\frac{5}{5} = 1$					
2) One side of a regular pentagon is 5 cm. Its perimeter is <u>25</u>					
3) $27 + (-27) = 0$					
4) When two ratios are equal, they are said to be in proportion .					
5) The sum of 0.007 + 8.5 + 30.08 is <u>38.587</u>					
Q.3) State true or false.	$[5Q \times 1M = 5M]$				
1) – 5 is to the right of – 12 on a number line. \rightarrow True					
2) Number of matchesticks required to make a pattern of Z is 3. \rightarrow True					
3) $(-5) + (-8) + 4 + 10 = -1 \rightarrow$ False					
4) The Perimeter of a square is 4 times the length of the side. \rightarrow True					
5) Successor of 6999 is 6998. → False					
SECTION C					
Q.4) Solve the following.	$[5Q \times 2M = 10M]$				
1) Write opposites of the following.					
a) 45 m East b) Increase in weight					
Ans: 45 m WestAns: Decrease in weight					
2) Find the ratio of the following.					
a) 10 minutes to 55 minutes					
Ans: Ratio of 10 minutes to 55 minutes = $\frac{10}{55}$ minutes = $\frac{2}{11}$ minutes					
3) Subtract: 5.842 km from 9.042 km					
Ans: 9.042 km					
- <u>5.842 km</u>					
3.200 km					
4) The teacher distributes 9 pencils per student. Can you tell how many pencils are needed,	give the number of				
students? (Use t for the number of students)					
Ans: Given, Let t be the number of students, Pencils given to each student = 9					
Total number of pencils = Number of pencils given to each student × Number of students					
=9 x t = 9t					
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5) Draw a tally marks table for the following data.

Sports	Cricket	Football	Basketball	Badminton	Chess
Number of students	17	16	15	12	5
like					

Ans:

Sports	Tally marks		
Cricket	11 fitt fitt fitt.		
Football	1 114, 114, 114,		
Basketball	竹 根 竹根 竹根		
Badminton	11 114 114		
Chess	184.		

Q.5) Simplify.

1) Solve: $\frac{3}{2} + \frac{2}{3} + \frac{1}{4}$ Ans: $\frac{3}{2} + \frac{2}{3} + \frac{1}{4} = \text{LCM} = 12$ $\frac{3X6}{2X6} + \frac{2X4}{3X4} + \frac{1X3}{4X3} = \frac{18}{12} + \frac{3}{12} = \frac{18+8+3}{12} = \frac{29}{12} = 2\frac{5}{12}$

2) Are 30, 40, 45 and 60 in proportion ?

Ans: Ratio of 30 to 40 =Ratio of 45 to 60

 $\frac{30}{40} = \frac{45}{60}$, 3:4=3:4 Since, 30:40=45:60

Therefore, 30, 40, 45, 60 are in proportion.

3) Observe the given pictograph and answer the questions.

Activity Club	Number of students \bigcirc = 2 students
Art	
Dance	
Karate	
Music	

a) Which activity club has maximum number of students?

Ans: Dance i.e. 14 students

 $[6Q \times 3M = 18M]$

b) Which activity club has minimum number of students?

Ans: Karate i.e. 6 students

c) Which activity clubs have equal number of students?

Ans: Art and Music i.e. 8 students

4) Find the value of: 74.703 + 45.092 - 23.808

Ans:

	Н	Т	0	•	Th	Hth	Thth
		7	4	•	7	0	3
		4	5	•	0	9	2
+	1	1	9	•	7	9	5

	Н	Т	0	•	Th	Hth	Thth
	0	11	8	•	17	8	15
	1	1	9	•	7	9	5
-		2	3	•	8	0	8
	0	9	5	•	9	8	7

5) If the cost of 8 m of cloth is Rs. 4200, find the cost of 4 m of cloth.

Ans: Cost of 8 m cloth = Rs 4200. Cost of 1 m = Rs 4200 ÷ 8 = Rs 525 Cost of 4 m of cloth = Rs 525 x 4 = Rs 2100 Thus, the cost of 4m of cloth = Rs 2100

6) Find the sum of: (-754) + (-67) + 34 + (-54)

Ans: (-754) + (-67) + 34 + (-54) = -754 - 67 + 34 - 54 = -821 - 20 = -841

SECTION E

Q.6) Word problems.

1) A floor is 7 cm long and 3 cm wide. A square carpet of sides 2 cm is laid on the floor. Find the area of the

floor that is not carpeted.

Ans: Area of the floor = length × breath Area of the floor = $7 \times 3 = 21 \text{ cm}^2$ Area of the square carpet = Side X Side = $2 \times 2 = 4 \text{ cm}^2$ Now, we will be subtracting the square carpet area from the floor's area to get the area of the floor that is not carpeted. Hence, the area of the floor that is not carpeted = $21 - 4 = 17 \text{ cm}^2$ Thus, the area of the floor that is not carpeted is 17 cm^2 .

2) In a college, out of 4500 students, 2500 are girls. Find the ratio of

 $[3Q \times 4M = 12M]$

- a) Number of girls to the total number of students.
- b) Number of boys to the number of girls.
- c) Number of boys to the total number of students.

Solutions: Given,

Total number of students = 4500, Number of girls = 2500

Number of boys = 4500 - 2500 = 2000

a) Ratio of the number of girls to the total number of students $=\frac{2500}{4500}=\frac{25}{45}=\frac{5}{9}$ b) Ratio of the number of boys to the number of girls $=\frac{2000}{2500}=\frac{20}{25}=\frac{4}{5}$

c) Ratio of the number of boys to the total number of students $=\frac{2000}{4500}=\frac{20}{45}=\frac{4}{9}$

3) Rakesh takes $2\frac{1}{5}$ minutes to walk across the school ground. Rahul takes $\frac{5}{4}$ minutes to do the same. Who takes less time and by what fraction?

Solutions: Given,

Time taken by Rakesh to walk across the school ground = $2\frac{1}{5} = \frac{11}{5}$ minutes Time taken by Rahul to walk across the school ground = $\frac{5}{4}$ minutes

Convert these fractions into like fractions,

$$\frac{11}{5} = \frac{11 \times 4}{5 \times 4} = \frac{44}{20} , \quad \frac{5}{4} = \frac{5 \times 5}{4 \times 5} = \frac{25}{20}$$

Clearly, $\frac{44}{20} > \frac{25}{20}$
 $\frac{11}{5} > \frac{5}{4}$

 \therefore Rahul takes less time than Rakesh to walk across the school ground

Difference = $\frac{11}{5} - \frac{5}{4} = \frac{44}{20} - \frac{25}{20} = \frac{19}{20}$

Hence, Rahul walks across the school ground by $\frac{19}{20}$ minutes