

**DELHI PUBLIC SCHOOL JAMMU**  
**SESSION (2024-25)**  
**FINAL EXAMINATION**  
**SAMPLE PAPER**

**Class: VI**  
**Subject: MATHS**

**Time: 3 hours**  
**Max. Marks: 80**

**General Instructions:**

- All the questions are compulsory.
- The question paper has 5 sections A, B, C, D and E.
- Section A has 20 Multiple Choice Questions (MCQs) carrying 1 mark each.
- Section B has 5 Short Answer-I (SA-I) type questions carrying 2 marks each.
- Section C has 6 Short Answer-II (SA-II) type questions carrying 3 marks each.
- Section D has 4 Long Answer (LA) type questions carrying 5 marks each.
- Section E has 3 Case-Study based questions (4 marks each) with subparts of the values 1 mark each respectively.
- All questions are compulsory. However, an internal choice in 2Qs of 2 marks, 2Qs of 3 marks and 2Qs of 5 marks has been provided.
- Draw neat figures wherever required.

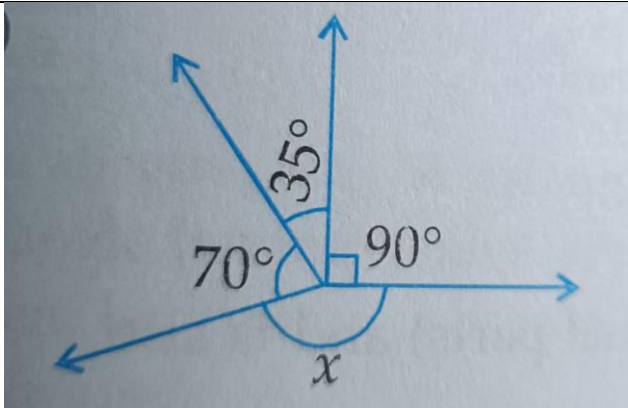
	<b>Section – A</b> <b>Multiple Choice Questions</b>	
<b>SN</b>		<b>Marks</b>
1	The absolute value of -45 is _____ (a) 0 (b) -1 (c) 45 (d) None of these	1
2	What should be added to -5 to get -8? (a) 3 (b) -13 (c) -3 (d) none of these	1
3	Fractions with same denominators are called _____ fractions. (a) Like (b) unlike (c) mixed (d) none of these	1
4	A fraction whose numerator is greater than the denominator is called an _____ fraction. (a) Proper (b) improper (c) mixed (d) none of these	1
5	The area of a square having side 'y' is _____ (a) $y \times y$ (b) $4y$ (c) $y + y$ (d) $4 + y$	1
6	The expression for 5 times x less than 19 is _____ (a) $5x - 19$ (b) $19 + 5x$ (c) $19 - 5x$ (d) none of these	1
7	$5\text{kg } 6\text{g} =$ _____ (a) $5.6\text{kg}$ (b) $5.06\text{kg}$ (c) $5.006\text{kg}$ (d) none of these	1

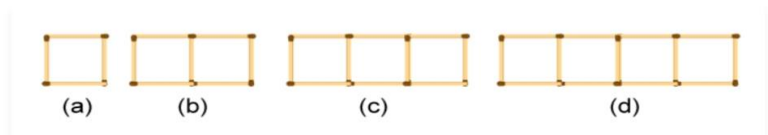
8	Which of the following is true? (a) $0.6 < 0.06$ (b) $0.7 > 0.9$ (c) $1.06 < 1.78$ (d) none of these	1
9	Perimeter of a square = _____ (a) Side $\times$ Side                      (b) $4 \times$ Side                      (c) $l \times b$ (d) none of these	1
10	Area of a rectangle= _____ (a) $l \times b$ (b) $2(l+b)$ (c) Side $\times$ Side                      (d) none of these	1
11	A bus covers 126 km in 3 hours and a train covers 315 km in 5 hours at uniform speeds. The ratio of distances covered by them in one hour is _____ (a) 14:21                      (b) 21:14                      (c) 2:3                      (d) 3:2	1
12	The ratio of a dozen to a score is _____ (a) 5:3                      (b) 3:15                      (c) 3:5                      (d) none of these	1
13	The reflex angle corresponding to the angle $55^\circ$ is _____ (a) $210^\circ$ (b) $209^\circ$ (c) $305^\circ$ (d) $420^\circ$	1
14	How many degrees are there in 3 right angles? (a) $270^\circ$ (b) $90^\circ$ (c) $180^\circ$ (d) $360^\circ$	1
15	An angle whose measure is $180^\circ$ is called a _____ angle (a) Acute                      (b) straight                      (c) reflex                      (d) complete	1
16	The raw data when written in ascending or descending order is called _____ data (a) arrayed                      (b) statistics                      (c) frequency                      (d) None of these	1
17	The number of times a particular observation occurs in the given data is called _____ (a) Tally marks                      (b) frequency                      (c) arrayed data                      (d) none of these	1
18	If O represents 5 eggs, how many eggs does OOOO represent? (a) 4                      (b) 16                      (c) 20                      (d) 25	1
	<b>(Q19-Q20) <u>Assertion and Reason Based Questions</u></b>  This type of reasoning questions consists of two statements; an assertion (statement of fact) and a reason (explanation for the assertion). You have to determine whether each statement is correct. If both the statements are correct, you have to determine whether the reason supports the assertion. There will be four answer choices for the possible outcomes and you have to select the correct one.	
19	<b>Assertion (A) – <math>4 \times y = 4y</math></b> <b>Reason (R) – Literals obey all the rules of addition, subtraction, multiplication and division.</b> a) Both A and R are true and R is the correct explanation of A b) Both A and R are true but R is not the correct explanation of A	1

	c) A is true but R is false d) A is false but R is true	
20	<b>Assertion (A) - 1.5, 1.6 and 2.7 are like decimals.</b> <b>Reason (R) – Decimals with the same decimal places are called like decimals.</b> a) Both A and R are true and R is the correct explanation of A b) Both A and R are true but R is not the correct explanation of A c) A is true but R is false d) A is false but R is true	1

	<b>Section-B</b>	
21	Simplify $(-50) + (-10) - (-2)$ <b>Or</b> Write any four integers less than -13	2
22	Draw a rough sketch of a pentagon and draw its diagonals.	2
23	There are 15 cadets in a row. If there are 'x' rows, write the formula for number of cadets. <b>Or</b> Write the following using literals , numbers and signs of basic operations. (a) 8 multiplied by x decreased by 7 (b) 8 times y subtracted from 80	2
24	Divide Rs 720 between Rohan and Sohan in the ratio of 3:7	2
25	Find the perimeter of an equilateral triangle of side 12 cm	2

	<b>Section-C</b>	
26	Do as Directed (a) Find the value of x in $60 : x :: 84 : 147$ (b) Find the ratio of 4kg to 800g	3
27	Do as directed (a) Reduce $\frac{45}{60}$ into lowest term (b) Add $\frac{7}{10} + \frac{8}{15}$	3
28	Using only a ruler , draw an acute angle, right angle and reflex angle. <b>Or</b> Find the measure of x in the following figure :	3

		
29	Find the length of the rectangle whose perimeter is 420 cm and whose breadth is 85 cm. <b>Or</b> Find the cost of fencing a rectangular field whose length and breadth are 22 m and 16 m respectively at Rs 20.50 per metre.	3
30	Shyam covers 48 km 340 m by car, 4km 70 m by rickshaw and 40 m on foot. What is the total distance covered by him?	3
31	The ages (in years) of 25 students of class VI of a school are given below: 12, 15, 12, 14, 13, 13, 12, 15, 12, 12, 13, 15, 12, 12, 14, 12, 15, 14, 15, 12, 12, 15, 15, 15, 15 Prepare a frequency distribution table.	3

	<b>Section-D</b>	
32	<p>Neha runs 10 times around a square park of side 75m. Radha runs 15times around a rectangular park of length 60 m and breadth 45 m. Who covers less distance? By how much?</p> <p><b>Or</b></p> <p>How many tiles whose length and breadth are 12cm and 5 cm respectively are needed to fit in a rectangular region whose length and breadth are 144 cm and 100 cm respectively?</p>	5
33	<p>A car covers a distance of 180 km in 5 hours.</p> <p>(i) How much distance will the car cover in 3 hours with the same speed?</p> <p>(ii) How much time will the car take to cover 54 km with the same speed?</p> <p><b>Or</b></p> <p>Cost of 10 kg of wheat is Rs 180.</p> <p>(i) What is the cost of 18 kg of wheat?</p> <p>(ii) What quantity of wheat can be purchased in Rs 432?</p>	5
34	<p>Look at the following matchstick pattern of squares. The squares are not separate. Two neighbouring squares have a common matchstick. Observe the patterns and find the rule that gives the number of matchsticks</p> 	5

35	<p>Magan Bhai sells kite at Jamnagar. Six shopkeepers from nearby villages come to purchase kites from him. The number of kites he sold to these shopkeepers are given below</p> <table><tr><th>Shopkeeper</th><th>Number of Kites sold</th></tr><tr><td>Chaman</td><td>250</td></tr><tr><td>Rani</td><td>300</td></tr><tr><td>Rukhsana</td><td>100</td></tr><tr><td>Jasmeet</td><td>450</td></tr><tr><td>Jetha Lal</td><td>250</td></tr><tr><td>Poonam Ben</td><td>700</td></tr></table> <p>Prepare a pictograph using the symbol to represent 100 kites. Answer the following questions:</p> <p>(a) How many symbols represent the kites that Rani purchased?</p> <p>(b) Who purchased the maximum number of kites?</p> <p>(c) Who purchased more kites, Jasmeet or Chaman?</p>	Shopkeeper	Number of Kites sold	Chaman	250	Rani	300	Rukhsana	100	Jasmeet	450	Jetha Lal	250	Poonam Ben	700	
Shopkeeper	Number of Kites sold															
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	<p style="text-align: center;"><b>Section-E</b> <b>Case Study based Questions</b></p>															
36	<p>Present age of father is 45 years and that of his son is 15years.</p> <p>1.Find the ratio of present age of father to the present age of son.</p> <p>(a) 1:5      (b) 2:8      (c) 3:1      (d) 49</p> <p>2. Find the ratio of age of father to the age of son, when son was 10 years old.</p> <p>(a) 1:5      (b) 4:1      (c) 4:9      (d) none of these</p> <p>3. Find the ratio of age of father after 10 years to the age of son after 10 years.</p> <p>(a) 11:5      (b) 7:6      (c) 14      (d)35</p> <p>4. Find the ratio of age of father to the age of son when father will be 60 years old.</p> <p>(a) 2:8    (b)2:7      (c) 2:1    (d) none of these</p>	4														
37	<p>Ravi has a rectangular garden with a length of 15 meters and a breadth of 10 meters. He wants to put a fence around the garden and also plant grass in the entire area.</p> <p>1 What is the perimeter of Ravi's garden?</p> <p>(a) 25 m. (b) 30 m. (c) 50 m. (d) 70 m</p> <p>2 What is the area of Ravi's garden?</p> <p>(a) 50 sq. m. (b) 100 sq. m. (c) 150 sq. m. (d) 300 sq. m</p> <p>3 If the cost of fencing is ₹50 per meter, what is the total cost to fence the garden?</p> <p>(a) ₹1500. (b) ₹2500. (c) ₹3500. (d) ₹5000</p>	4														

	4 If the garden's length is increased by 5 meters, what will be the new perimeter of the garden? (a) 80 m. (b) 75m. (c) 60 m. (d) 90 m	
38	<p>Rahul bought a pizza, which was divided into 8 equal slices. He ate 3 slices and shared 2 slices with his friend. He was left with some slices.</p> <p>1. What fraction of the pizza did Rahul eat? (a) <math>\frac{2}{8}</math> (b) <math>\frac{3}{8}</math>. (c) <math>\frac{1}{8}</math> (d) none of these</p> <p>2. What fraction of the pizza did Rahul share with his friend? (a) <math>\frac{2}{8}</math>. (b) <math>\frac{3}{8}</math>. (c) <math>\frac{5}{8}</math>. (d) None of these</p> <p>3. What fraction of the pizza was consumed by Rahul and his friend together? (a) <math>\frac{5}{8}</math> (b) <math>\frac{3}{8}</math>. (c) <math>\frac{2}{8}</math> (d) None of these</p> <p>4. What fraction of the pizza was left with Rahul? (a) <math>\frac{3}{8}</math>. (b) <math>\frac{2}{8}</math>. (c) <math>\frac{1}{8}</math>. (d) None of these</p>	4

Reflection Box						
1. How confident do you feel about your understanding of the topics covered in this assessment?	A) Very Confident		B) Somewhat Confident		C) Not Confident	
2. How well do you think you prepared for this assessment?	A) Very Well		B) Somewhat Well		C) Not Well	
3. What do you think you could have done differently to improve your performance on this assessment?	A) Studied thoroughly		B) Practiced more		C) Asked for help from the teachers or peers.	