

Kendriya Vidyalaya Sangathan, Jaipur Region

Session Ending Examination (2025-26)

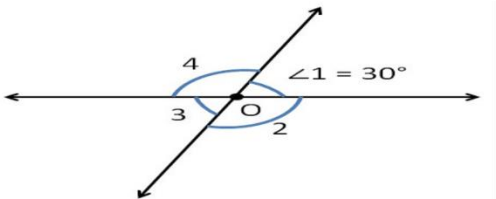
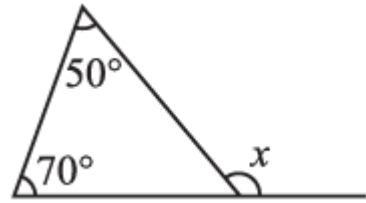
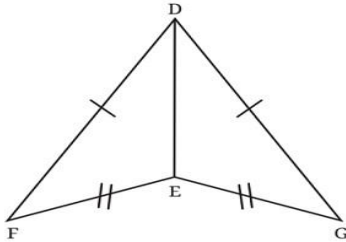
Class-7 Subject- Mathematics Subject Code----- Practice set 01

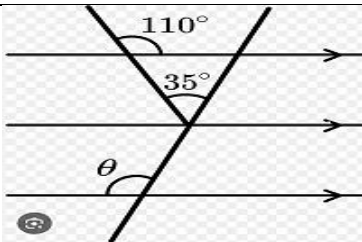
Max.Marks: 60

Duration: 2:30 min



	<p>General Instructions:</p> <ul style="list-style-type: none"> • This question paper contains 30 questions. All are compulsory. • This question paper is divided into 5 sections A, B, C, D and E. • Section A (From Q.1 to Q.15) consists 13 MCQ questions and questions 14 and 15 are Assertion – Reason based questions of 1 mark each. • Section B (From Q.16 to Q.21) consists 06 very short answer type questions of 2 marks each. • Section C (From Q.22 to Q.26) consists 05 short answer type questions of 3 marks each. • Section D (From Q.27 to Q .28) consists 02 Case based questions of 4 marks each. • Section E (From Q.29 to Q .30) consists 02 Long answer questions of 5 marks each. 	
	Section A (From Q.1 to Q.15)) MCQs	
1	Which of the following is NOT a prime number? (a) 71 (b) 89 (c) 93 (d) 13	1
2	Which of the following is correct when dividing fractions? (a) Convert the second fraction and multiply (b) Convert fractions to whole numbers first (c) Subtract denominators before dividing (a) Multiply both fractions separately	1
3	The parity of the expression $3n + 2$, when $n = 2$, is (a) Even (b) Odd (c) Sometimes even (d)None of above	
4	The sum of two consecutive integers is always_____. (a) Even number (b) odd number (c) Natural number(d) Negative integer	1
5	A line intersects two or more lines at distinct points is called ----- (a) Transversal (b) Parallel lines (c) intersecting lines (d) none of these	1

6	<p>If two lines are intersected by a transversal line , then the number of pairs of corresponding angles are :</p> <p>(a) 1 (b)2 (c) 3 (d) 4</p>	1
7	<p>When two sides and the included angle of two triangles are equal, the two triangles are congruent. This is referred to as the condition for congruence:</p> <p>(a) ASA (b) SSA (c) SAS (d) ASS</p>	1
8	<p>Which of the following is not an integer?</p> <p>(a) $0 \div 5$ (b) $(-4) \times (-1)$ (c) $(35) \div (-7)$ (d) $(-17) \div (-12)$</p>	1
9	<p>A Recipe requires $\frac{2}{3}$ of a cup of sugar. If you triple the recipe, how much sugar is needed?</p> <p>(a) $\frac{4}{3}$ cups (b) $\frac{5}{6}$ cups (c) $\frac{2}{9}$ cups (d) $\frac{6}{3}$ cups</p>	1
10	<p>The angle formed between the extension of a side of a triangle and the other side is called an -----angle.</p> <p>(a) Exterior (b) Interior (c) Straight (d) None of these</p>	1
11	<p>Find the third angle of a triangle (using parallel line) when two of the angle are : 36° , 72°</p> <p>(a) 70° (b) 72° (c) 76° (d) 77°</p>	1
12	<p>Maria bought 8 m of a lace to decorate the bags. she made for school. She used $\frac{1}{4}$ m for each bag and finished the lace. How many bags did she decorate?</p> <p>(a) $8 \times \frac{1}{4}$ (b) $\frac{1}{8} \times \frac{1}{4}$ (c) $8 \div \frac{1}{4}$ (d) $\frac{1}{4} \div 8$</p>	1
13	<p>Two figures are called geometrical twins if they have the same :</p> <p>(a) Shape only (b) Size only (c) Shape and Size (d) Area only</p>	1
	<p>DIRECTION: In the given question 14 and 15, a statement of Assertion (A) is followed by a statement of Reason (R). Choose the correct Options are :</p> <p>(a) Both assertion and reason are true, and the reason is the correct explanation of the assertion.</p> <p>(b) Both assertion and reason are true, but the reason is not the correct explanation of the assertion.</p> <p>(c) Assertion is true, and the reason is false.</p> <p>(d) Assertion is false, and the reason is true</p>	
14	<p>Assertion (A): If a transversal cuts two parallel lines, then each pair of corresponding angles is equal.</p> <p>Reason (R): A transversal intersects two parallel lines. If the measure of one of the angles is 50°, then the measure of its corresponding angle is 50°.</p>	1

15	Assertion (A): The sum of five odd numbers is always odd. Reason (R): Adding an odd number of odd number always results in an odd number.	1
	Section B (From Q.16 to Q.21)) VSA	
16	Find the value of $\angle 2$, $\angle 3$, $\angle 4$ in the following figure. 	2
17	Solve the following digit in disguise. (a) $\begin{array}{r} Y Y \\ + Z \\ \hline Z O O \end{array}$ (b) $\begin{array}{r} B 5 \\ + 3 D \\ \hline E D 5 \end{array}$	2
18	Find the value of the unknown exterior angle x in the following diagram: 	2
19	In the figure below, are DEF and GED congruent to each other? It is given that $DF=DG$ and $FE=GE$. 	2
20	Rohan find out the following cases contains certain measurements taken from two triangles. Identify the pairs in which the triangles are congruent to each other, with reason .Express the congruence whenever they are congruent. (a) $AB=DE$ $BC=EF$ $CA=DF$	2
21	Find pairs of numbers from their sums and differences: (a) Sum = 27 , Difference=9 (b) Sum = -7 , Difference= -13	2

	Section C (From Q.22 to Q.26)	
22	 <p>Find the angle represented by θ.</p>	3
23	<p>Construct a triangle for the following measures where the side is included between the angles: 75°, 5 cm, 75° OR Construct a triangle for the following measurements where the angle is included between the sides: 6 cm, 25°, 3 cm</p>	3
24	A freezing process requires that the room temperature be lowered from 30°C at the rate of 5°C every hour. What will be the room temperature 10 hours after the process begins?	3
25	Rahim drinks $\frac{1}{2}$ glass of juice every day. How many glasses of Juice does he drink in a week? How many glasses of milk did He drink in the month of January?	3
26	Can you construct a triangle all of whose angles are equal to 70° ? If two of the angles of a triangle are 70° , what would the third angle be? If all the angles in a triangle have to be equal, then what must its measure be? Explain and find out.	3
	Section D (From Q.27 to Q .28)	
27	<p>Passage: Triangle Constructions and Triangle inequality</p> <p>Ragini wanted to create different triangle shapes for her project using paper strips of various lengths. She picked three strips of lengths 3 cm, 4 cm, and 8 cm. Despite trying multiple times, She couldn't join them to form triangle. Her teacher explained to her about the triangle inequality and helped her explore which combinations of length can form valid triangles.</p> <p>Q1. Which of the following is a correct condition of the triangle inequality theorem?</p> <ul style="list-style-type: none"> (a) Each side must be greater than the sum of the other two (b) Each side must be less than the sum of the other two (c) Each side must be equal to the other two (d) Sum of all three sides should be greater than 180 <p>Q2. Can a triangle be formed with lengths 3 cm, 4cm, and 8 cm?</p> <ul style="list-style-type: none"> (a) Yes, always (b) Only if it's a right angle triangle (c) No, triangle inequality fails (d) Only in a scalene triangle 	4

	<p>Q3. Which of the following sets can form a triangle?</p> <p>(a) 2cm, 2cm, 5cm (b) 5cm, 6cm, 12cm (c) 3cm, 4cm, 5cm (d) 1cm, 1cm, 3cm</p> <p>Q4. If the sum of two smaller sides equals the longest side, what kind of triangles is formed?</p> <p>(a) Right triangle (b) Acute triangle (c) Straight line, not a triangle (d) Obtuse triangle</p>	
28	<p>Social Studies Application:</p> <p>Remembering that 1AD came immediately after 1BC, while solving these problems take 1BC as -1 and 1AD as +1.</p> <p>(a) The Greco-Roman era, when Greece and Rome ruled Egypt, started in the year 330 BC and ended in the year 395 AD. How long did the era last?</p> <p>(b) Bhaskaracharya was born in the year 1114 AD and died in the year 1185 AD. What was his age when he died?</p> <div data-bbox="376 960 844 1299" data-label="Image"> </div> <p>(c) Turks ruled Egypt in the year 1517 AD and Queen Nefertis ruled Egypt about 2900 years before the Turks ruled. In what year did she rule?</p> <p>(d) Greek mathematician Archimedes lived between 287 BC and 212 BC and Aristotle lived between 380 BC and 322 BC. Who lived during earlier period?</p>	4
Section E (From Q.29 to Q .30)		
29	<div data-bbox="280 1606 713 1785" data-label="Image"> </div> <p>Arjun has an odd number Rs 1 coins an odd number of Rs 5 coins and an even number of Rs 10 coins in his piggy bank. He calculated the total and got Rs 205. Did he make a mistake? If he did, explain why. If he didn't how many coins of each type could he have?</p> <p style="text-align: center;">OR</p>	5

	Create a magic square using the numbers 2-10. What strategy would you use for this? Compare it with the magic squares made using 1-9.	
30	<p>The government has taken $\frac{1}{6}$ of Soma's land to build a road. What part of the land remains with Soma now? She gives half of the remaining part of the land to her daughter Krishna and $\frac{1}{3}$ of it to her son Bora. After giving them their shares, she keeps the remaining land for herself.</p>  <p>(a) What part of the original land did Krishna get? (b) What part of the original land did Bora get? (c) What part of the original land did Soma keep for herself? (d) What part did Krishna and bora get in all? (e) Who is getting larger part? Krishna or Bora .</p> <p style="text-align: center;">OR</p>  <p>Family photograph has length $14\frac{2}{5}$ cm and breadth $10\frac{2}{5}$ cm. It has a border of uniform width $2\frac{3}{5}$ cm. Find the area of framed photograph.</p>	5