Mathematics – Class 6

PRACATIAL GEOMETRY

1.	Points that don't	lie on the same line	are called		
	A) Collinear poin		B) Non-Collinear po	ints	
	C) Coplaner point		D) Non-Coplanar po		
ANS	·				
2.	If two different lin	nes in a plane have	a point in common, the	en the lines are called	
	A) Concurrent lin	-	B) Intersecting		
	C) Coplanar lines		D) both (B) & (C)	~	
ANS	: D				
3.	Which of the follo	owing statement is t	rue?		
		it is a set of points			
	B) A line segmen	t is always a part of	a line		
	C) A line segmen	t has two end points			
	D) All of the above	ve			
ANS	: D				
4.	Of three collinear	points A,B, and C)	, if $AB + BC = AC$, the	en we say that	
	A) A is between I	B and C	B) B is between A an	nd C	
	C) C is between A	A and B	D) none of these		
ANS	: B				
5.	If A, B and C are	three collinear poin	ts then which of the fo	ollowing	
	A) $AB + BC + AC$	-	B) $AC - BC = AB$	C .	
	C) $AC - AB = BC$	С	D) All of the above		
ANS	: D				
6.	Which of the follo	owing statement is f	alse		
	A) A ray is a part	-	B) A ray has tw	vo end points	
	C) A ray is a set of		D) None of these		
ANS	: B	-			
7.	During the rotation	on, at one stage tw	o rays becomes oppo	site rays. Then the angle so form	ed is
	A) Zero angle	B) Straight angle	C) Reflex angle	D) No angle can form	
ANS	: B		-		
8.	If the terminal ray	y coincide with the i	nitial ray without any	rotation then the angle formed is	
	A) zero angle		C) complete angle D	e	

9.	An angle whose	measure is 90 ⁰ is ca	lled	
	A) An acute angl	e	B) Obtuse angle	
	C)) Right angle		D) Reflex angle	
ANS	: C			
		0		
10.	C	measure is 180^0 is c		
ANG	A) Right angle	B) Reflex angle	C) Straight angle	D) Obtuse angle
ANS	: C			
11.	Two angles in a	plane have the con	nmon vertex, a common s	ide and their interiors do not have a
	6	uch angles are calle		
	A) Congruent any	gles	B) Adjacent angles	
	C) Linear angles		D) Supplementary angle	S
ANS	: C			
12.			les is equal to 90^0 they are	
	A) Adjacent angl		B) Complementary angle	
ANS	C) Supplementar	y angles	D) vertically opposite an	ngles
ANS	. D			
13.	If two compleme	ntary angles have e	qual measures, the measure	e of each angle is
	A) 90 ⁰	B) 45 ⁰	C) 60 ⁰	$D) 0^0$
ANS	/	D) +5	C) 00	D
1 11 12	. 2			
14.	The measure of a	in angle is 20 ⁰ more	e than the measure of its su	pplement s
	A) 80 ⁰	B) 100 ⁰	C) 70 ⁰	D) 110 ⁰
ANS	· · · · · · · · · · · · · · · · · · ·	D) 100	0)70	<i>D</i>) 110
1.1.10	• =			
15.	In the given figur	re, lines 1 and m int	ersect at a point. If $\angle a = 50$	P^{0} , then the measure of $\angle c$ is

15. In the given figure, lines 1 and m intersect at a point. If $\angle a = 50^{\circ}$, then the measure of $\angle c$ is

b. a

C) 60⁰

►^m

D) 140⁰

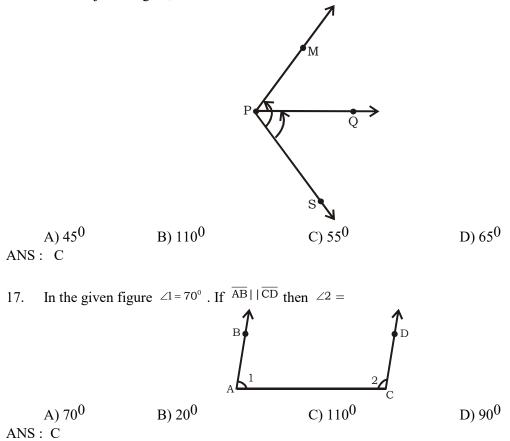
ANS: A

A) 50⁰

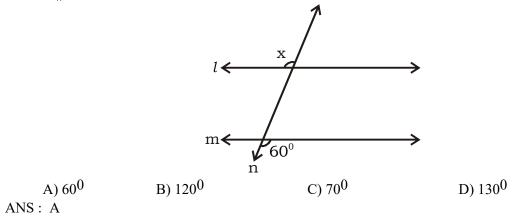
ANS: A

B) 30⁰

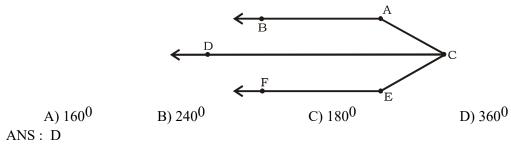
16. In the adjacent figure, $\angle SPM = 110^{\circ}$ & $\angle SPQ = 55^{\circ}$ the measure of $\angle MPQ$ is



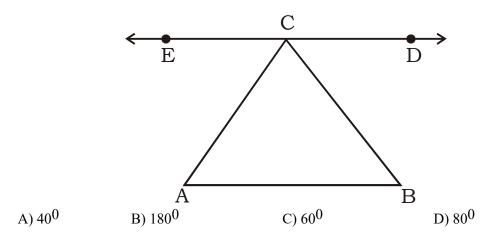
18. If ||m| and n is the transversal then the value of x is



In the adjacent figure, $\overline{AB} | |\overline{CD}| and \overline{CD} | |\overline{EF}|$. \overline{CD} is the bisector of . $\angle ACE | If \angle ACE = 80^{\circ}$ then the value of $\angle BAC + \angle ACE + \angle CEF|$ is 19.

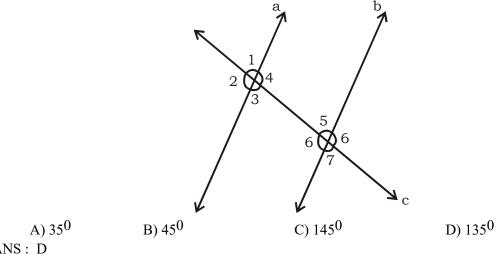


20. In the following figure . $\overline{DE} \mid \mid \overline{AB}$ If $\angle A = 60^{\circ}$ & $\angle B = 80^{\circ}$, then $\angle ACE + \angle ACB + \angle BCD$ is

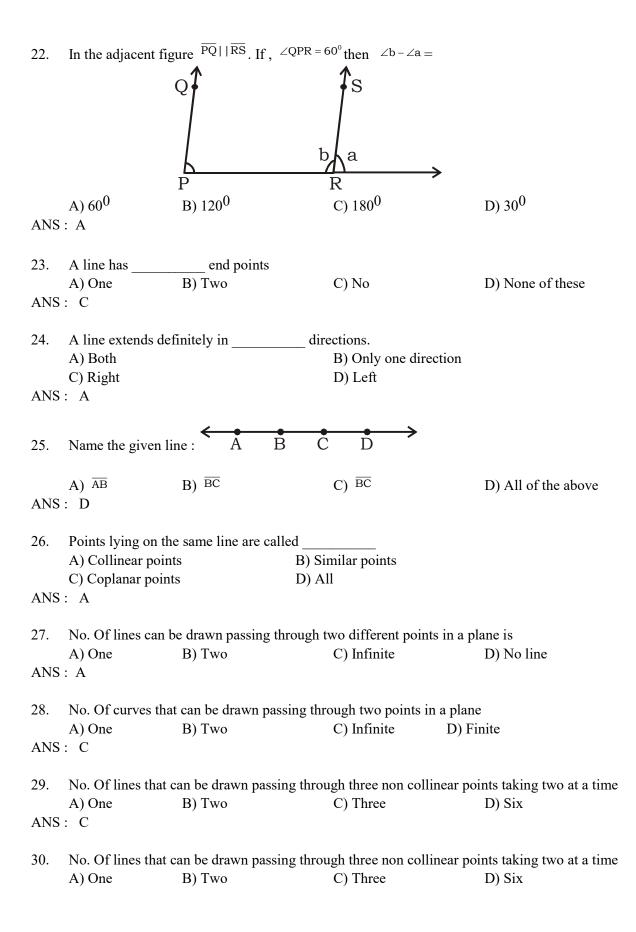


ANS : B

21. In the adjacent figure a b and c is their transversal. If $\angle I = 45^{\circ}$ then $\angle 8 =$



ANS: D



ANS: A

31.	No. Of lines can we draw passing throug A) One B) Two	gh three collinear point C) Three	s D) Infinite
ANS	, , ,	-)	_)
32.	A) $\frac{n(n+1)}{2}$ B) $\frac{n(n-1)}{2}$ C) $\frac{n(n-1)}{2}$		e is
ANS	S: A		
33. ANS	A flat surface extending indefinitely in a A) Plane B) Line S: C	ll directions is called C) Parallelogram	D) Triangle
	A plane is a flat surface extending indef A) One B) Two S : A	nitely in directions C) All	D) None
35.	1 0	gh a given point in a p) Only one D) None of these	lane.
ANS	S: B	2)1.000 01 0000	
36.	A) Intersecting lines B	v are not intersecting. S) Parallel lines) None of these	Such lines are calleD)
ANS	S: B		
37. ANS	A) Collinear pointsBC) Non collinear pointsD	alled) Co-planar points) Intersecting points	
38.	Lines belonging to the same plane are ca	illed	
	A) Parallel lines B) Non - intersecting lin	nes
ANS	· -) Co-planar lines	
39.) Point of concurrence	
ANS	· · ·) All of the above	
40.	The set of all points is calledA) PlaneB) Space	C) Surface	D) All

	Space is set A) Finite C) Collection of	of points.	B) An Infinite D) None of the ab	ove
ANS			,	
42.	Lines and planes A) Plane		C) Surface Area	D) All
ANS	: D	, 1	,	,
43.	Two segments h	aving the same lengt	h are called	
	A) Equal segmen		B) Similar Segments	
			D) All of the above	
ANS	b: D	8	2)111010100000	
44.	If AB = 4.5cm a	nd CD = 2.5 cm then	the value of $2AB - 3CD$ i	S
	A) 2.5cm	B) 2cm	C) 1cm	D) 1.5cm
ANS	/	2)20	0) 10111	2) 110 0111
11110				
45.	If $AB = 8 cm and$	1 CD = 4.2 cm then th	the value of $4AB + CD/3$ is	
	A) 3,4cm		C) 18.2cm	D) 33.4cm
ANS		,	,	,
46. ANS	A) Line	into two parts called B) Line segment		D) All
47.	A ray has			
	,	B) Two	C) No end points	D) Infinite
	: B			
ANS				
ANS 48.		tending indefinitely i	n the opposite directions of	of the same line. Such rays are c
				of the same line. Such rays are c
	Two rays are ext A) Intersecting r		B) Opposite rays	of the same line. Such rays are c
	Two rays are ext A) Intersecting r C) Such type of	ays	B) Opposite rays	of the same line. Such rays are c
48. ANS	Two rays are ext A) Intersecting r C) Such type of C C	ays rays does not exist D	B) Opposite rays) None of these	
48.	Two rays are ext A) Intersecting r C) Such type of C An angle whose	ays rays does not exist D measure is greater th	B) Opposite rays b) None of these han 90^0 and less than 180^0	
48. ANS	Two rays are ext A) Intersecting r C) Such type of C An angle whose A) An acute ang	ays rays does not exist D measure is greater th	B) Opposite rays b) None of these ann 90 ⁰ and less than 180 ⁰ B) An Obtuse angle	
48. ANS 49.	Two rays are ext A) Intersecting r C) Such type of C An angle whose A) An acute ang C) Right angle	ays rays does not exist D measure is greater th	B) Opposite rays b) None of these han 90^0 and less than 180^0	
48. ANS	Two rays are ext A) Intersecting r C) Such type of C An angle whose A) An acute ang C) Right angle	ays rays does not exist D measure is greater th	B) Opposite rays b) None of these ann 90 ⁰ and less than 180 ⁰ B) An Obtuse angle	
48. ANS 49.	Two rays are ext A) Intersecting r C) Such type of C An angle whose A) An acute ang C) Right angle C B	ays rays does not exist D measure is greater th	B) Opposite rays b) None of these ann 90 ⁰ and less than 180 ⁰ B) An Obtuse angle D) Reflex angle	
48. ANS 49. ANS	Two rays are ext A) Intersecting r C) Such type of C An angle whose A) An acute ang C) Right angle C B	ays rays does not exist D measure is greater th le	B) Opposite rays b) None of these ann 90 ⁰ and less than 180 ⁰ B) An Obtuse angle D) Reflex angle	of the same line. Such rays are ca

ANS : B

51. The magnitude of the angle between A) 120^{0} B) 150^{0} ANS : D	the hands of a clock when the t C) 180 ⁰	ime is 3'0 clock D) 90 ⁰
52. A ray which divides an angle into twoA) Bisector B) CongruentANS : A	congruent angles is called of th C) Measure D) None	he angle
53. The pair of adjacent angles, whose A) A linear pairC) Complementary anglesANS : A	non common arms are opposite B) Adjacent angles D) Supplementary angles	rays is called
54. If two lines intersect, then the ang A) Adjacent anglesC) Vertically oppositeANS : C	eles formed having no common B) Complementary angles D) Supplementary	n side are called angles
55. The supplementary angle of 31° is A) 59^{0} B) 139^{0} ANS : C	C) 149 ⁰	D) 69 ⁰
34. The complementary angle of 30° is A) 60^{0} B) 150^{0} ANS : A	C) 140 ⁰	D) 50 ⁰
56. Angle between two parallel lines is $A)0^0$ B)90 ⁰ ANS : A	C) 180 ⁰ D)3	60 ⁰
57. Angle between two perpendicular line A) 0^0 B) 90^0 ANS : B	nes is C) 270 ⁰	D) 180 ⁰
58. The coplanar lines which do not interA) Pa rallel linesC) Non Intersecting linesANS : A	ersect are called B) Perpendicular lines D) none	
 59. A line which intersects two or more A) Parallel B) Perpendicular C) TANS : C 		called to the given lines.

 60. 1, m and n are lines n a plane if ^l m A) ^l n B) ⁿ ^l ANS : D 	and $m \parallel n$ then C) $l \parallel n \parallel m$	D) All
61. If $l \perp n$ and then A) $l \perp n$ B) $l \perp m$ ANS: B	C) Both 1 & 2	D) None
62. In a triangle ABC, and AB = AC thenA) Equilateral B) IsoscelesANS : A		D) None
63 A simple closed figure bounded by linA)) SegmentB) polygonANS : B	-	D) ray
 64. A polygon with three sides is called A) Parallelogram C) decagon ANS : D 	B) pentagon D) triangle	
 65. A point lies on a triangle if it lies on a A) Sides B) angles ANS : A 		B) D) neither (A) or (B)
66. A triangle divides a plane in sets of A) Two B) threeANS : B	of points C) four	D) one
 67. A triangle has six components namely A) 4 sides, 4 angles C) 5 sides, 5 angles ANS : D 		
68. Sum of the angles of a triangle. A) 360^{0} B) 180^{0} ANS : B	C) 540 ⁰	D)1080 ⁰
 69. A triangle in which all sides are equal A) E equilateral C) scalene ANS : A 	B) Isosceles D) none of these	

70.	-	ch two sides are equ B) Isosceles		D) none of	these
ANS	: B				
		the unequal side B) angle		riangle and (B)	D) height
AINS	. А				
72.	-	f a Isosceles triangl B) not congruent) D) u	negual
ANS		, 8		, ,	1
73.	If each angle of a A) Acute	triangle is less than B) obtuse	90° it is called C) right	angled triar	ngle D) none
ANS	: A				
74.	e e	e of the angles is 90	•	ed triangle	D)
ANS	A) acute : B	B) Right	C) obtuse		D) none
75.	In triangle ABC ,	, =?			
ANS	A) 30 ⁰	B) 40 ⁰	C) 20 ⁰		D)50 ⁰
AND	. A				
76.	-	les can triangle hav B) two	e C) Three		D) Four
ANS	: A	,	,		,
77.	e e	ve two right angles?			
ANS	A) No B) Y : A	es	C) both	D) N	one
70	A triangle having	$90^0, 45^0$ angles, the	on the triangle is		
/0.	A) Right angled		B) acute angled		
ANS	C) obtuse angled : A		D) None		
		0 0 0			
79.	A triangle having A) obtuse angled	100 ⁰ .60 ⁰ .20 ⁰ angle	es then the triangle B) Right an		
ANS	C) acute angled		D) None	C	
AINO	. A				
80.		g 45 ⁰ ,55 ⁰ ,80 ⁰ angle			
	A) Acute angledC) Right angled		B) obtuse angledD) None		
	c) rugit ungivu				

ANS: A

81.	The sides are 150 A) No B) Y	cm, 8crn, 4cm. can you Yes (-	D) None
ANS	: A			
82.	Sum of any two s	sides in a triangle is	than third side	
ANS		B) less	C) equal	D) both (A)&(B)
83.		triangle are unequal the gle opposite to the sho	0 11	posite to the longer side is then the
ANS		B) bigger	C) both (A) and (B)	D) smaller
84.	If two angle of a opposite to small		then the side opposite to	the greater angle is then the side
ANS	A) longer : A	B) shorter	C) smaller	D) both (B) & (C)
85.	Each angle of an A) Congruent	equilateral triangle is _ B) equal	C) unequal E	D) both (A) & (B)
ANS		/ 1	, I	, , , ,
86.		e to right angle is called B) adjacent side	d C) opposite side D) smal	ll side
ANS	: A			
87.	-	QR then the triangle PC	QR is e angled D) equilateral	
ANS				
88.	-	ths of sides is called its		D) both a 8 b
ANS	A) perimeter : A	B) volume	C) area	D) both a & b
89.	Perimeter of a tri A) BC+CD+AB	-	C) both a & b	D) a b c
ANS	,			<i>D</i>) <i>u</i> 0 0
90.	If measure of thr A) 54^0 , 62^0 , 64^0		are $X - 2$, $X + 6$, $x + 8$ the B) 53 ⁰ , 63 ⁰ , 66 ⁰	n the angles are
ANS	C) 53 ⁰ , 36 ⁰ , 64 ⁰		B) 53°, 63°, 66° D) 57 ⁰ , 63 ⁰ , 60 ⁰	

	I) Every equilate II) A triangle car	lowing are false? eral triangle is an l n have two obtuse sust have three acu	angles	-	
ANS	A) I & II 5 : B	B) II & III	C	C) III & I	D) I, II, III
92.	If 2x, x 3x are a	ngles of a triangle	, then the	angles are	
	A) 60 ⁰ , 30 ⁰ , 80 ⁰)		B) 60 ⁰ , 30 ⁰ ,	90 ⁰
ANS	C) 50 ⁰ , 40 ⁰ , 90 5 : B			D) 60 ⁰ ,60 ⁰ ,6	00
93.		4x + 5 are angles.	, find the	angles ?	
	A) $58\frac{3^{\circ}}{4}, 31\frac{1^{\circ}}{4}, 90$ C) $90^{\circ}, 1^{\circ}, 90^{\circ}$) ⁰	B)	$58^{\circ}, 32^{\circ}, 90^{\circ}$	
	C) $90^{\circ}, 1^{\circ}, 90^{\circ}$			$19^{\circ},71^{\circ},60^{\circ}$	
ANS	5 : A				
Ans:	В				
95.]	Identify the instru		-	-) Scale and setsquares D) A sc
95.] Ans	Identify the instrum A) A scale and a		-	-) Scale and setsquares D) A sc
Ans	Identify the instrum A) A scale and a : B What do you call t A) Perpendicula	protractor B) wo lines intersect	Scale and	d compasses C	
Ans 96. 7 Ans 97.	Identify the instrum A) A scale and a : B What do you call t A) Perpendicula : D An angle of 15 • i A) Bisecting 60 • C) Bisecting 60 •	protractor B) wo lines intersect r lines B) Para is drawn using a p angle.	Scale and ing at a p Illel lines air of cor	d compasses C oint? C) Bisecto npasses and a r B) Bisecting 6) Scale and setsquares D) A sc ors lines D) Intersecting line uler. How is it done? $50 \circ$ and $120 \circ$ angles. $a 60 \circ$ and $180 \circ$ angles.
Ans 96. 7 Ans 97. Ans: 98. 7	Identify the instrum A) A scale and a : B What do you call t A) Perpendicula : D An angle of 15 • i A) Bisecting 60 • C) Bisecting 60 • C Which of the follo A) 20 •	protractor B) wo lines intersect r lines B) Para is drawn using a p angle. and then bisecting wing is an angle t	Scale and ing at a p Illel lines air of cor g it again	d compasses C oint? C) Bisecto npasses and a r B) Bisecting 6 . D) Bisecting	rs lines D) Intersecting line uler. How is it done? 50 ° and 120 ° angles.

100. An angle $\angle XYZ=75 \circ$ is bisected by an angular bisector YU- \rightarrow --. Then what is the measure of $\angle UYZ$?

A) 37 • B) 37.5 • C) 47.5 • D) 47 •

Ans: B