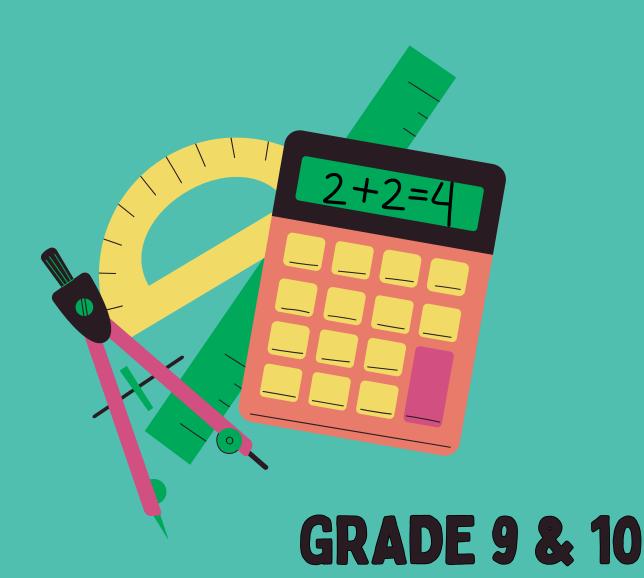


# MEGA MATH SYLLABUS



1. A polygon with five	sides is called:		
a) Hexagon	b) Pentagon	c) Octagon	d) Nonagon
2. The sum of the ang	les of a quadrilateral	is:	
a) 180°	b) 360°	c) 540°	d) 720°
3. Which triangle has	one angle greater tha	n 90°?	
a) Acute triangle	b) Obtuse triangle	c) Right triangle	d) Scalene triangle
4. The value that occu	rs most often in a dat	ta set is called:	
a) Mean	b) Median	c) Mode	d) Range
5. A solid with two pa	rallel circular bases is	s called:	
a) Cone	b) Cylinder	c) Prism	d) Pyramid
<ul><li>6. A number divisible</li><li>a) Composite number</li><li>c) Whole number</li><li>7. Which of these ang</li></ul>	per	<b>b) Prime number</b> d) Rational number	
a) Acute	b) Right	c) Obtuse	d) Reflex
8. A triangle with all s	sides of different leng	ths is called:	
a) Isosceles	b) Equilateral	c) Scalene	d) Right
9. Which is the longes	t side in a right triang	gle?	
a) Adjacent	b) Opposite	c) Hypotenuse	d) Base
10. Which type of dat	a is represented by nu	ımbers?	
a) Qualitative	b) Quantitative	c) Categorical	d) Nominal
11. A straight line pas	sing through two poin	nts is called:	
a) Ray	b) Line	c) Chord	d) Diameter
12. Which part of a fr	action is above the lir	ne?	
a) Denominator	b) Numerator	c) Dividend	d) Quotient
13. A polygon with all	sides and angles equ	al is:	
a) Irregular polygor	n b) Regular polygon	c) Scalene polygon	d) Parallelogram
14. Which transforma	ation flips a figure ove	er a line?	
a) Translation	b) Reflection	c) Rotation	d) Enlargement
15. A solid figure with	a flat polygonal base	e and triangular faces	meeting at a point is:
a) Cone	b) Pyramid	c) Cylinder	d) Sphere
16. Which number is	the multiplicative ide	ntity?	
a) 0	<b>b</b> ) 1	c) –1	d) 10
17. Which type of num	nber has no fractiona	l part?	
a) Rational number	b) Whole number	c) Irrational number	d) Decimal

18. The fixed point ar	ound wnich a figure r	otates is called:	
a) Axis	b) Center of rotation	on c) Origin	d)Tangent
19. Which triangle ha	s all three angles equa	11?	
a) Scalene	b) Isosceles	c) Equilateral	d)Right
20. The study of colle	cting, organizing, and	interpreting data is c	alled:
a) Algebra	b) Statistics	c) Geometry	d)Trigonometry
21. The distance arou	nd a circle is called:		
a) Area	b) Circumference	c) Radius	d)Diameter
22. Which side is opp	osite the right angle in	a right triangle?	
a) Base	b) Hypotenuse	c) Height	d)Median
23. Which angle is gr	eater than 180° but les	ss than 360°?	
a) Obtuse	b) Reflex	c) Straight	d)Acute
24. A closed plane fig	ure with straight sides	is called:	
a) Circle	b) Polygon	c) Sphere	d)Ellipse
25. The average of a s	et of values is called:		
a) Mode	b) Median	c) Mean	d)Range
26. Which property sa	$ays that a \times b = b \times a?$		
a) Associative prop	perty	b) Commutative pr	roperty
c) Distributive prop	perty	d) Identity property	
27. The distance from	the center of a circle	to any point on its cir	cumference is:
a) Diameter	b) Radius	c) Chord	d) Tangent
28. A triangle with on	e angle exactly 90° is:		
a) Acute triangle	b) Right triangle	c) Obtuse triangle	d)Scalenetriangle
29. A polygon with 6	sides is:		
a) Pentagon	b) Hexagon	c) Octagon	d) Nonagon
30. Which number is	the additive identity?		
a) 0	b) 1	c) -1	d) 10
31. The number that	divides exactly into an	other number is calle	ed:
a) Multiple	b) Factor	c) Dividend	d) Product
32. Which type of cha	ert shows data as slices	of a circle?	
a) Bar chart	b) Pie chart	c) Line graph	d) Histogram
33. Which set has no	elements?		
a) Universal set	b) Empty set	c) Finite set	d) Infinite set
34. The longest chord	in a circle is the:		
a) Radius	b) Diameter	c) Tangent	d) Secant

23. Which polygon	nas an siacs equal but n	or an angles equal:	
a) Square	b) Rhombus	c) Rectangle	d)Trapezium
36. A line that touc	ches a circle at only one p	oint is called:	
a) Chord	b) Tangent	c) Secant	d) Radius
37. A quadrilatera	l with both pairs of oppo	site sides parallel is	called:
a) Trapezium	b) Parallelogram	c) Kite	d)Rhombus
38. Which is the su	m of probabilities of all	possible outcomes?	
a) 0	b) 1	c) Infinity	d)Undefined
39. A three-dimens	sional object that is perfe	ectly round is:	
a) Cylinder	b) Sphere	c) Cone	d)Hemisphere
40. Which axis in a	graph is horizontal?		
a) Y-axis	b) X-axis	c) Z-axis	d) Origin
<ul><li>a) Commutative</li><li>c) Distributive p</li></ul>		b) Associative prod) Reflexive prope	
a) Scalene	b) Isosceles	c) Equilateral	d) Right
43. The outer boun	dary of a closed figure is	s called:	
a) Area	b) Perimeter	c) Volume	d)Circumference
44. Which graph is	s best for showing change	e over time?	
a) Pie chart	b) Line graph	c) Bar chart	d)Histogram
45. Which is a poly	gon with 10 sides?		
a) Octagon	b) Decagon	c) Nonagon	d)Dodecagon
46. A number that	can be expressed as a ra	tio of two integers is	<b>3:</b>
a) Irrational	b) Rational c	e) Real	d)Imaginary
47. Which line pas	ses through the center of	a circle and is twice	e the radius?
a) Chord	b) Diameter	e) Tangent	d) Secant
48. Which side of a	right triangle is next to	the right angle?	
a) Hypotenuse	b) Adjacent side	c) Opposite side	d) Median
49. A shape with a	ll sides equal and all angl	les equal is:	
a) Rectangle	b) Square	c) Rhombus	d) Kite
50. A quadrilatera	l with all sides equal and	all angles equal to 9	00° is:
\ D1 1	h) Canara	c) Rectangle	d)Parallelogram
a) Rhombus	b) Square	c) Rectangle	a)i aranciogram
•	easures exactly 180°?	c) Rectangle	a)i aranciogram

3

32. The flat surface of a	a sond figure is carred	1.		
a) Edge	b) Face	c) Vertex	d) Base	
53. Which type of number cannot be expressed as a fraction?				
a) Rational number	b) Irrational numb	er c) Whole number	d) Integer	
54. The plural of vertex	x is:			
a) Vertexes	b) Vertices	c) Verticals	d) Vertes	
55. Which term describ	es the distance arou	nd a polygon?		
a) Area	b) Perimeter	c) Volume	d) Diameter	
56. A triangle with ang	les measuring 30°, 60	0°, and 90° is called:		
a) Scalene triangle	b) Right triangle	c) Isosceles triangle	d)Equilateral triangle	
57. Which transformat	ion slides a figure wi	thout turning it?		
a) Reflection	b) Translation	c) Rotation	d) Dilation	
<ul> <li>58. Which property is shown by a + 0 = a? <ul> <li>a) Commutative property</li> <li>b) Identity property</li> <li>d) Distributive property</li> </ul> </li> <li>59. Which is the smallest prime number?</li> </ul>				
a) 1	b) 2	c) 3	d) 5	
60. The boundary of a	circle is called:			
a) Area	b) Circumference	c) Radius	d) Arc	
61. The sum of the angl	les of a triangle is alv	vays:		
a) 90°	b) 180°	c) 270°	d) 360°	
62. A quadrilateral wit	h both pairs of oppos	site sides equal and pa	rallel is:	
a) Kite	b) Parallelogram	c) Trapezium	d) Rhombus	
63. A triangle with all a	angles less than 90° is	<b>:</b>		
a) Right triangle	b) Acute triangle	c) Obtuse triangle	d)Scalene triangle	
64. The distance betwee	en two points is calle	d:		
a) Arc	b) Length	c) Perimeter	d) Radius	
65. A shape with 7 sides is called:				
a) Hexagon	b) Heptagon	c) Octagon	d) Pentagon	
66. Which is the multiplicative inverse of 4?				
a) 4	b) 1/4	c) –4	d) -1/4	
67. A flat surface that e	extends without end i	n all directions is calle	ed:	
a) Line	b) Plane	c) Ray	d) Edge	
68. Which type of angle	e is formed when two	lines are perpendicul	ar?	
a) Acute angle	b) Right angle	c) Obtuse angle	d)Reflex angle	

oz. Which shape has	caucity one curved sur	ince.		
a) Sphere	b) Cone	c) Cylinder	d)Cube	
70. A bar graph with	no spaces between ba	rs is called:		
a) Line graph	b) Histogram	c) Pie chart	d)Pictograph	
71. The line segment j	oining two points on a	a curve is called:		
a) Tangent	b) Chord	c) Secant	d)Diameter	
72. Which term descr	ibes the likelihood of a	an event occurring?		
a) Mean	b) Probability	c) Frequency	d)Ratio	
73. Which number is	neither prime nor con	nposite?		
a) 2	b) 3	c) 1	d) 0	
74. A shape with all si	des equal and opposit	te sides parallel is call	ed:	
a) Square	b) Rhombus	c) Rectangle	d)Kite	
75. Which transforma	ation turns a figure ab	out a fixed point?		
a) Reflection	b) Translation	c) Rotation	d)Enlargement	
76. The distance from the center of a circle to any point on it is called:				
a) Diameter	b) Radius	c) Chord	d)Tangent	
77. Which polygon ha	s all sides and all ang	les equal?		
a) Irregular polygor	n b) Regular polygon	c) Scalene polygon	d)Isosceles polygon	
78. Which solid has no	o edges or vertices?			
a) Cylinder	b) Sphere	c) Cube	d)Cone	
79. The set {2, 4, 6, 8,	} is an example of:			
a) Odd numbers	b) Even numbers	c) Prime numbers	d)Composite numbers	
80. Which number is	the additive inverse of	f –9?		
a) –9	b) 9	c) 0	d) 1	
81. Which quadrilate	ral has exactly one pai	ir of parallel sides?		
a) Parallelogram	b) Trapezium	c) Rhombus	d)Rectangle	
82. Which shape has t	two circular bases con	nected by a curved su	ırface?	
a) Cone	b) Cylinder	c) Sphere	d)Prism	
83. The point where t	wo sides of a polygon	meet is called:		
a) Edge	b) Vertex	c) Base	d)Face	
84. Which property sa				
<ul><li>a) Commutative pro</li><li>c) Distributive pro</li></ul>	· •	<ul><li>b) Associative property</li><li>d) Identity property</li></ul>	perty	
85. A polygon with 4 of	equal sides and no rig	ht angles is:		
a) Square	b) Rhombus	c) Rectangle	d)Kite	

a) Line graph	b) Bar chart	c) Histogram	d) Pie chart		
87. The outer edge of a	circle is called:				
a) Radius	b) Circumference	c) Diameter	d) Arc		
88. Which shape has al	ll faces as rectangles?				
a) Cube	b) Cuboid	c) Prism	d) Pyramid		
89. A polygon with 9 si	ides is:				
a) Octagon	b) Nonagon	c) Decagon	d) Heptagon		
90. Which angle measu	ires less than 90°?				
a) Right angle	b) Acute angle	c) Obtuse angle	d) Reflex angle		
91. Which term means	"parts per hundred"	!?			
a) Ratio	b) Percent	c)Fraction	d) Proportion		
<b>92.</b> Which shape has the a) Scalene triangle	rree equal sides?	b)Isosceles	striangle		
c) Equilateral trian	_	d)Right tri	· ·		
93. A solid with all face			4) Dr		
a) Cuboid	b) Cube	c)Prism	d) Pyramid		
94. The sum of probab	-	•	4) II., 1, C., . 1		
a) 0	b) 1	c) Infinite	d) Undefined		
95. Which polygon has		<b>\ D</b>	1) G		
a) Rectangle	b) Triangle	c) Pentagon	d) Square		
96. Which side of a tria			1) ) ( 1)		
a) Longest side	b) Shortest side	c) Equal side	d) Median		
97. Which number is k					
a) 0	b) 1	c) –1	d) Infinity		
98. Which type of data					
a) Continuous data	b) Discrete data	c) Categorical data	d) Nominal data		
99. Which is the study	- / /	-			
a) Algebra	b) Geometry	c) Statistics	d) Arithmetic		
	100. The set of whole numbers includes:				
a) 1, 2, 3,	b) 0, 1, 2, 3,	c) $-1$ , 0, 1, 2	d) All fractions		
101. Which polygon ha	as 8 sides?				
a) Hexagon	b) Octagon	c) Nonagon	d) Decagon		
102. The sum of the an	gles in a pentagon is:				
a) 360°	b) 540°	c) 720°	d) 900°		

86. Which graph is used to compare different categories?

	icie is a portion of its				
a) Diameter	b) Arc	c) Chord	d) Radius		
104. A number that is greater than 0 is called:					
a) Negative number	b) Positive number	c) Integer	d)Rational number		
105. A shape with no si	des or vertices is:				
a) Triangle	b) Polygon	c) Circle	d) Square		
106. Which transforma	106. Which transformation creates a mirror image of a figure?				
a) Translation	b) Reflection	c) Rotation	d) Scaling		
107. Which term descri	ibes the total surface e	nclosed by a 2D shap	e?		
a) Perimeter	b) Area	c) Volume	d) Diameter		
108. The number that a	appears in the most da	ta entries is:			
a) Mean	b) Median	c) Mode	d) Range		
109. Which number is	the additive inverse of	5?			
a) 5	b) -5	c) 0	d) 1		
110. Which quadrilateral has all sides equal and all angles equal to 90°?					
a) Rhombus	b) Square	c) Rectangle	d) Kite		
111. A flat figure made up of straight lines is called:					
a) Circle	b) Polygon	c) Ellipse	d) Curve		
<ul> <li>112. Which property says a × b = b × a?</li> <li>a) Associative property</li> <li>b) Commutative property</li> </ul>					
a) Associative proper	rty	b) Commutative pro	operty		
<ul><li>a) Associative prope</li><li>c) Distributive prope</li></ul>	rty rty	d) Reflexive property	-		
a) Associative proper	rty rty	d) Reflexive property, and 4?	-		
<ul><li>a) Associative prope</li><li>c) Distributive prope</li><li>113. Which term descri</li></ul>	rty rty bes numbers like –3, 0 b) Integers	d) Reflexive property, and 4?	7		
<ul><li>a) Associative prope</li><li>c) Distributive prope</li><li>113. Which term descri</li><li>a) Whole numbers</li></ul>	rty rty bes numbers like –3, 0 b) Integers	d) Reflexive property, and 4?	7		
<ul> <li>a) Associative prope</li> <li>c) Distributive prope</li> <li>113. Which term descri</li> <li>a) Whole numbers</li> <li>114. A polygon with 12</li> </ul>	rty rty bes numbers like -3, 0 b) Integers sides is called: b) Dodecagon	d) Reflexive property, and 4? c)Rational numbers	d)Irrational numbers		
<ul> <li>a) Associative proper</li> <li>c) Distributive proper</li> <li>113. Which term descrition</li> <li>a) Whole numbers</li> <li>114. A polygon with 12</li> <li>a) Decagon</li> </ul>	rty rty bes numbers like -3, 0 b) Integers sides is called: b) Dodecagon	d) Reflexive property, and 4? c)Rational numbers	d)Irrational numbers		
<ul> <li>a) Associative proper</li> <li>c) Distributive proper</li> <li>113. Which term descrites</li> <li>a) Whole numbers</li> <li>114. A polygon with 12</li> <li>a) Decagon</li> <li>115. Which angle meas</li> </ul>	rty rty bes numbers like –3, 0 b) Integers sides is called: b) Dodecagon ures exactly 90°? b) Right angle	d) Reflexive property , and 4? c)Rational numbers c) Nonagon c) Reflex angle	d)Irrational numbers d) Octagon d)Acute angle		
<ul> <li>a) Associative proper</li> <li>c) Distributive proper</li> <li>113. Which term descrites</li> <li>a) Whole numbers</li> <li>114. A polygon with 12</li> <li>a) Decagon</li> <li>115. Which angle meas</li> <li>a) Obtuse angle</li> </ul>	rty rty bes numbers like –3, 0 b) Integers sides is called: b) Dodecagon ures exactly 90°? b) Right angle	d) Reflexive property , and 4? c)Rational numbers c) Nonagon c) Reflex angle	d)Irrational numbers d) Octagon d)Acute angle		
<ul> <li>a) Associative proper</li> <li>c) Distributive proper</li> <li>113. Which term descrites</li> <li>a) Whole numbers</li> <li>114. A polygon with 12</li> <li>a) Decagon</li> <li>115. Which angle meas</li> <li>a) Obtuse angle</li> <li>116. Which transformant</li> </ul>	rty rty bes numbers like –3, 0 b) Integers sides is called: b) Dodecagon ures exactly 90°? b) Right angle ation keeps the shape a b) Translation	d) Reflexive property, and 4? c) Rational numbers c) Nonagon c) Reflex angle nd size but changes p c) Reflection	d)Irrational numbers d) Octagon d)Acute angle osition? d) Dilation		
a) Associative proper c) Distributive proper 113. Which term descri a) Whole numbers 114. A polygon with 12 a) Decagon 115. Which angle meas a) Obtuse angle 116. Which transformation	rty rty bes numbers like –3, 0 b) Integers sides is called: b) Dodecagon ures exactly 90°? b) Right angle ation keeps the shape a b) Translation	d) Reflexive property, and 4? c) Rational numbers c) Nonagon c) Reflex angle nd size but changes p c) Reflection al mirror-image halve	d)Irrational numbers d) Octagon d)Acute angle osition? d) Dilation		
a) Associative proper c) Distributive proper 113. Which term descri a) Whole numbers 114. A polygon with 12 a) Decagon 115. Which angle meas a) Obtuse angle 116. Which transformata a) Rotation 117. Which line divides	bes numbers like –3, 0 b) Integers sides is called: b) Dodecagon ures exactly 90°? b) Right angle stion keeps the shape a b) Translation s a shape into two equal	d) Reflexive property, and 4? c) Rational numbers c) Nonagon c) Reflex angle nd size but changes p c) Reflection al mirror-image halve y c) Diameter	d)Irrational numbers  d) Octagon  d)Acute angle  osition?  d) Dilation  s?		
a) Associative proper c) Distributive proper 113. Which term descri a) Whole numbers 114. A polygon with 12 a) Decagon 115. Which angle meas a) Obtuse angle 116. Which transformat a) Rotation 117. Which line divides a) Radius	bes numbers like –3, 0 b) Integers sides is called: b) Dodecagon ures exactly 90°? b) Right angle stion keeps the shape a b) Translation s a shape into two equal	d) Reflexive property, and 4? c) Rational numbers c) Nonagon c) Reflex angle nd size but changes p c) Reflection al mirror-image halve y c) Diameter	d)Irrational numbers  d) Octagon  d)Acute angle  osition?  d) Dilation  s?		
a) Associative proper c) Distributive proper 113. Which term descri a) Whole numbers 114. A polygon with 12 a) Decagon 115. Which angle meas a) Obtuse angle 116. Which transformat a) Rotation 117. Which line divides a) Radius 118. Which polygon ha	bes numbers like –3, 0 b) Integers sides is called: b) Dodecagon ures exactly 90°? b) Right angle stion keeps the shape a b) Translation a shape into two equa b) Line of symmetry s 4 equal sides but not b) Rhombus	d) Reflexive property, and 4? c) Rational numbers c) Nonagon c) Reflex angle nd size but changes p c) Reflection al mirror-image halve y c) Diameter all angles equal? c) Rectangle	d)Irrational numbers d) Octagon d)Acute angle osition? d) Dilation s? d) Axis		

a) Identity property c) Distributive proper 121. Which side of a rig	rty	b) Zero property of d) Associative prope	-	
a) Opposite side	b) Adjacent side	c) Hypotenuse	d) Median	
122. The top view of a c	, ,	c) Hypotenase	a) Median	
a) Rectangle	b) Circle	c) Triangle	d) Polygon	
123. A three-sided polys	,	c) Triangle	a) i oiygon	
a) Rectangle	b) Triangle	c) Pentagon	d) Hexagon	
124. Which term describes an angle measuring less than 90°?				
a) Right angle	b) Acute angle	c) Obtuse angle	d) Reflex angle	
125. The plural of "radi	,	e) Sotuse ungle	a) Reflex angle	
a) Radiuses	b) Radii	c) Radials	d) Radius	
126. Which graph is bes	,	,	,	
a) Line graph	b) Pie chart	c) Bar chart	d) Histogram	
127. Which term descri	,	,	, 6	
a) Continuous data	b) Discrete data	c) Categorical data	d) Nominal data	
128. The sum of the ang	,	o) caregorical and	<i>a)</i> 1 (21.11.11.11	
a) 360°	b) 540°	c) 720°	d) 900°	
129. Which part of a gr	,	<i>c</i> ,	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
a) X-axis	b) Y-axis	c) Z-axis	d) Origin	
130. Which type of trian	,	,	, 8	
a) Scalene triangle	-	e c) Equilateral triangle	ed) Right triangle	
131. Which number is c	,	, .		
a) 0	b) 1	c) –1	d) 2	
132. Which solid shape	•	,	,	
a) Cylinder	b) Cone	c) Sphere	d) Pyramid	
133. The total distance	,	, •	, ,	
a) Area	b) Perimeter	c) Volume	d) Radius	
134. Which type of num	,	oart?	,	
a) Integer	b) Decimal number		d)Natural number	
135. Which polygon has	s 13 sides?	,		
a) Dodecagon	b) Tridecagon	c) Octagon	d) Nonagon	
136. Which number has	, g		-	
a) 1	b) 0	c) -1	d) 2	

137. The sum of the	e measures or suppremen	tal y aligies is.	
a) 90°	b) 180°	c) 270°	d) 360°
138. Which type of	triangle has one angle ed	qual to 90°?	
a) Acute triangle	b) Right triangle	c) Scalene triangle	d) Equilateral triangle
139. Which polygon	n has 18 sides?		
a) Octagon	b) Octadecagon	c) Decagon	d) Hexagon
140. The plural of '	"axis" is:		
a) Axises	b) Axes	c) Axis	d) Axions
<ul><li>141. Which proper</li><li>a) Associative proper</li><li>c) Distributive proper</li><li>142. A polygon with</li></ul>	roperty	? b) Commutative party d) Identity property	roperty
a) Triangle	b) Quadrilateral	c) Pentagon	d) Hexagon
143. A train travels	s 120 km in 2 hours. At th	he same speed, how lo	ng will it take to travel 300 km?
A) 3 h	B) 5 h	C) 6 h	D) 7 h
144. The solution o	f 2x + 5 = 15  is:		
A) 3	B) 4	C) 5	D) 6
145. A square has p	perimeter 40 cm. What is	s its area?	
A) 80 cm <sup>2</sup>	B) 100 cm <sup>2</sup>	C) 120 cm <sup>2</sup>	D) 160 cm <sup>2</sup>
146. A die is rolled	once. Probability of gett	ing an odd number is:	
A) 1/6	B) 1/2	C) 2/3	D) 5/6
147. The roots of x	$^{2} - 9 = 0$ are:		
A) ±2	B) ±3	C) ±9	D) 0
148. A man walks	5 km north, then 12 km e	east. Distance from sta	rt point = ?
A) 12 km	B) 15 km	C) 13 km	D) 17 km
149. If 3 pencils cos	st 18 rupees, the cost of 7	pencils = ?	
A) 36	B) 40	C) 42	D) 45
150. The mean of n	numbers $4, 6, 8, 10, 12 = 3$	•	
A) 7	B) 8	C) 9	D) 10
151. A car travels a	at 60 km/h. How far in 2	hours 30 minutes?	
A) 120	B) 150	C) 160	D) 180
152. The circumfer	ence of a circle with radi	ius 7 cm is ( $\pi$ =22/7):	
A) 42	B) 44	C) 46	D) 49
153. If $\sin \theta = 1$ , the	en $\theta = ?$		_
A) 0°	B) 90°	C) 180°	D) 270°

154. Which is a solu	tion of $3x - 2 = 10$ ?		
A) 3	B) 4	C) 5	D)6
155. A bag has 5 red	d and 3 blue balls. Proba	ability of picking a	red ball?
A) 1/2	B) 5/8	C) 3/8	D) 2/3
156. A number incr	eased by 25% becomes	100. What is the nu	mber?
A) 70	B) 80	C) 85	D)90
157. The distance-ti	me graph of uniform sp	eed is a:	
A) Curve	B) Straight line	C) Parabola	D)Circle
158. If $a^2 = 64$ , then	a = ?		
A) ±6	B) ±8	C) ±10	D)±12
159. Volume of a cu	be with side 5 cm is:		
A) 100	B) 110	C) 125	D)150
160. Solve: $x/3 = 7$			
A) 14	B) 21	C) 28	D) 35
161. A shopkeeper g	gives 20% discount on R	ks. 500. Final price?	
A) 350	B) 400	C) 420	D) 440
162. The next prime	e after 47 is:		
A) 49	B) 53	C) 57	D) 59
163. If $(x-3)(x+3)$	=?		
A) $x^2 + 9$	B) $x^2 - 9$	C) $x^2 - 6x$	$D) x^2 + 6x$
164. A card is draw	n from a deck. Probabil	ity of a king = ?	
A) 1/26	B) 1/13	C) 2/13	D) 1/12
165. The slope of lin	the $y = 3x + 2$ is:		
A) 2	B) 3	C) –3	D) 1/3
166. Median of 8, 12	2, 15, 20, 25 is:		
A) 12	B) 15	C) 20	D) 25
167. Area of triangle	e with base 12 cm and h	eight 8 cm is:	
A) 48 cm <sup>2</sup>	B) 96 cm <sup>2</sup>	C) 100 cm <sup>2</sup>	D) 120 cm <sup>2</sup>
168. If $5x = 60$ , then	$\mathbf{x} = ?$		
A) 10	B) 12	C) 15	D) 20
	adius 3 cm. Volume = ?	$(\pi = 3.14)$	
A) 100	B) 110	C) 113.04	D) 120
170. Simplify: (2/5)	+ (3/10)		
A) 1/2	B) 7/10	C) 9/10	D) 1

171	Which	is a	quadratic	equation?
1/1.	VV IIICII	15 a	quauranc	equation:

A) 
$$2x + 1 = 0$$

B) 
$$x^2 + 2x + 1 = 0$$

C) 
$$3x - 4 = 0$$

D) 
$$y = 2x$$

#### 172. In a right triangle, if base=9, height=12, hypotenuse=?

#### 174. If a rectangle has length 10 and width 6, its area = ?

#### 175. Which number is divisible by 9?

176. Solve: 
$$2x - 7 = 9$$

#### 177. Which point lies on y = 2x?

A) 
$$(1,1)$$

B) 
$$(2,1)$$

D) 
$$(3,5)$$

### 178. A triangle with angles 50°, 60°, and 70° is:

#### 179. Area of circle with diameter 14 cm is ( $\pi$ =22/7):

## 180. A student scored 75 out of 100. Percentage = ?

#### 181. If $x^2 = 121$ , then x = ?

$$A) \pm 9$$

B) 
$$\pm 10$$

$$C) \pm 11$$

D) 
$$\pm 12$$

## 182. A triangle has angles $70^{\circ}$ , $50^{\circ}$ , and $x^{\circ}$ . What is the value of x?

# **183.** A car travels **180** km in **3** h. Its speed = ?

## **184.** 1 kilometre = how many meters?

## 185. 2/3 of 90 = ?

# 186. If $\tan \theta = 1$ , then $\theta = ?$

## **187. Solve:** $\sqrt{x} = 7$

188. Perimeter of rectangle  $8 \times 6 = ?$ 

A) 24

B) 26

C) 28

D) 30

189. If 2x = 14, then x = ?

A) 5

**B**) 7

C) 8

D) 9

190. Which sequence is arithmetic?

A) 2,4,8,16

B) 3,6,9,12

C) 1,2,4,8

D)5,25,125

191. Mode of 2, 4, 4, 5, 6, 6, 6, 7 = ?

A) 4

**B)** 6

C) 7

D) 5

192. The diagonals of a rectangle are always:

A) Unequal

B) Equal

C) Parallel

D)Perpendicular

193. Which is the value of  $2^3$ ?

A) 6

B) 8

C) 9

D) 12

194. A speed of 72 km/h is equal to how many m/s?

A) 15

B) 20

C) 25

D) 30

195. A shop sells a shirt for Rs. 400 after 20% discount. Original price?

A) 420

B) 440

C) 500

D) 520

196. Which is irrational?

A) √4

B) √9

C) √2

D) √16

197. The gradient of a line perpendicular to y=2x is:

A)-2

B) -1/2

C) 1/2

D) 2

198. If a = 2, b = 3, then  $a^2 + b^2 = ?$ 

A) 9

B) 13

C) 14

D) 16

199. Which triangle has all sides equal?

A) Scalene

B) Isosceles

C) Equilateral

D) Right

200. Which is the largest 3-digit number divisible by 5?

A) 995

B) 996

C) 990

D) 999

**201. Simplify:** 4x - 2x + 7

A) 2x + 6

B) 2x + 7

C) 4x + 7

D) 2x - 7

202. The solution set of  $x^2 = 25$  is:

A) {-4, 4}

B) {-5, 4}

C) {-5, 5}

D) {5, 25}





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