

1. The perimeter of	a rectangle is 50 cm.	If the length is to ch	i, what is the width:
A) 7 cm	B) 8 cm	C) 9 cm	D) 10 cm
2. A shopkeeper sol	d a shirt for Rs. 600	at a profit of Rs. 100.	What was the cost price?
A) 450	B) 500	C) 550	D) 520
3. The LCM of 12 a	nd 18 is:		
A) 24	B) 30	C) 36	D) 42
4. A triangle has an	gles 40°, 60°, and x°.	Find x.	
A) 70°	B) 75°	C) 80°	D) 85°
5. The mean of 8, 10	), 12, 14 is:		
A) 10	B) 11	C) 11.5	D) 12
6. A die is rolled. Pr	obability of getting a	number greater tha	n 4 is:
A) 1/6	B) 1/2	C) 1/3	D) 5/6
7. The perimeter of	a square is 28 cm. It	s area is:	
A) 36 cm <sup>2</sup>	B) 49 cm <sup>2</sup>	C) 64 cm <sup>2</sup>	D) 81 cm <sup>2</sup>
8. If $x - 7 = 12$ , then	$\mathbf{x} = ?$		
A) 16	B) 19	C) 20	D) 21
9. Which of these is	a multiple of both 4	and 6?	
A) 16	B) 18	C) 20	D) 24
10. A car travels 12	0 km in 2 hours. Wh	at is its speed?	
A) 50 km/h	B) 60 km/h	C)65km/h	D) 70 km/h
11. If radius = 7 cm	, circumference = ? (	$\pi=22/7)$	
A) 40	B) 42	C) 44	D) 46
12. Simplify: $4x - 2$	+3x+5		
A) $6x + 6$	B) $7x + 3$	C) $8x + 2$	D) $7x - 2$
13. Which is a prim	e number?		
A) 27	B) 29	C) 33	D) 35
14. Area of triangle	with base 12 and hei	ight 5 is:	
A) 25	B) 30	C) 35	D) 40
15. If $2x = 18$ , then $x = 18$	x = ?		
A) 7	B) 8	C) 9	D) 10
16. Median of 5, 7, 9	9, 11, 13 = ?		
A) 7	B) 9	C) 11	D) 10

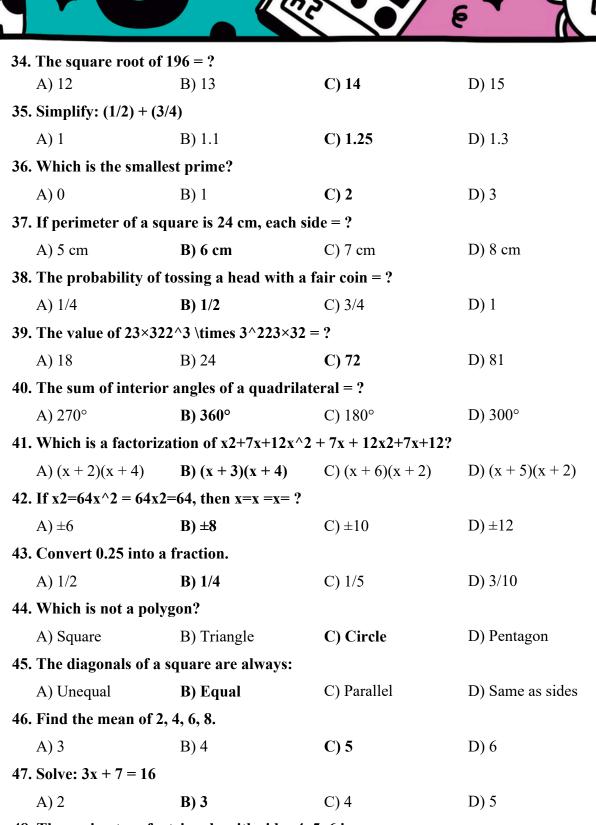
17. Which fraction	is equal to 0.75?		
A) 2/5	B) 3/4	C) 4/5	D) 7/10
18. A man spends	Rs. 240 which is 40% of	his salary. His salary	is:
A) 500	B) 600	C) 650	D) 700
19. If $a = 5$ and $b = 6$	= 3, the value of $a^2 - b^2$ is	:	
A) 14	B) 16	C) 24	D) 28
20. Probability of	picking a king from a ful	ll deck (52 cards) = ?	
A) 1/26	B) 1/13	C) 1/12	D) 1/10
21. Area of circle v	with radius 3 cm is $(\pi = 3)$	3.14):	
A) 26.5	B) 28.26	C) 30	D) 31
22. Solve: $x / 4 = 9$			
A) 32	B) 34	C) 36	D) 38
23. Volume of a cu	be with side 6 cm = ?		
A) 196	B) 216	C) 230	D) 240
24. Which is an eq	uilateral triangle?		
A) $40^{\circ}$ , $50^{\circ}$ , $90^{\circ}$	B) 30°, 60°, 90°	C) 60°, 60°, 60°	D) 45°, 45°, 90°
25. Which is irrati	onal?		
A) √16	B) √3	C) √25	D) √49
<b>26.</b> The mode of <b>2</b> ,	3, 3, 4, 5, 5, 5, 6 is:		
A) 3	B) 5	C) 6	D) 2
27. If 5 pens cost R	Rs. 50, then 12 pens cost:		
A) 110	B) 120	C) 125	D) 130
28. Solve: $7x - 5 =$	16		
A) 2	B) 3	C) 4	D) 5
29. Which is divisi	ble by 9?		
A) 32	B) 42	C) 45	D) 52
30. If a triangle ha	s sides 6, 8, 10, then it is	:	
A) Isosceles	B) Right-angled	C) Equilateral	D) Scalene
31. Which point lie	es on $y = 2x$ ?		
A) $(2, 3)$	B) (3, 6)	C)(1,3)	D) (2, 5)
32. Find HCF of 1	8 and 24.		
A) 2	B) 3	C) 6	D) 12
33. A shopkeeper	marks Rs. 500 and gives	10% discount. Sale p	rice = ?

C) 450

D) 460

B) 445

A) 440



48. The perimeter of a triangle with sides 4, 5, 6 is:

A) 12

B) 13

C) 15

D) 16

49. Which is a square number?

A) 18

B) 20

C) 25

D) 27

50. Area of a parallelogram with base 10 and height 6 = ?

A) 50

B) 60

C) 65

D) 70

51. Which is equivalent	t to 3/5?			
A) 6/12	B) 7/12	C) 9/15	D) 8/14	
52. If diameter of a circ	cle is 14, radius = ?			
A) 6	B) 7	C) 8	D) 9	
53. A bag has 2 red and	l 3 blue balls. Probab	ility of red = ?		
A) 1/3	B) 2/5	C) 3/5	D) 1/2	
54. A cube has edge 4 c	m. Volume = ?			
A) 48	B) 60	C) 64	D) 72	
55. Which is equivalent	t to 2/8?			
A) 1/8	B) 1/2	C) 1/4	D) 1/6	
56. Which is the next p	rime after 31?			
A) 33	B) 35	C) 37	D) 39	
57. Area of rectangle 1	$5 \times 8 = ?$			
A) 110	B) 115	C) 120	D) 125	
58. 40% of 250 = ?				
A) 90	B) 100	C) 105	D) 110	
59. Simplify: (1/3) ÷ (2/3)				
A) 1/2	B) 2/3	C) 3/2	D) 1/3	
60. The cube root of 64 is:				
A) 2	B) 3	C) 4	D) 5	
61. The largest two-digit number is:				
a) 90	b) <b>99</b>	c) 100	d) 98	
62. A 3D shape with a c	circular base and one	curved surface is:		
a) Sphere	b) Cylinder	c) Cone	d)Cube	
63. The perimeter of a	triangle with sides 3 c	m, 4 cm, and 5 cm is:		
a) 10 cm	b) 12 cm	c) 11 cm	d)9cm	
64. Which of these is an irrational number?				
a) 4	b) 5/2	c) 0.25	d) √2	
65. The distance between	65. The distance between two points is called:			
a) Radius	b) Length	c) Width	d) Height	
66. Which of the following is not a polygon?				
a) Square	b) Triangle	c) Circle	d) Pentagon	
67. The product of two	odd numbers is alway	ys:		
a) Even	b) Odd	c) Prime	d) Composite	

68. How many degrees	are there in a comple	te turn?		
a) 90°	b) 180°	c) <b>360°</b>	d) 270°	
69. Which of the follow	ing is a proper fraction	on?		
a) 5/2	b) <b>3/4</b>	c) 4/4	d) 7/3	
70. The middle value in	n a set of ordered num	bers is called:		
a) Mean	b) Mode	c) Median	d) Range	
71. The diagonals of a s	square are:			
a) Unequal	b) <b>Equal</b>	c) Curved	d) Parallel	
72. Which is the largest	t fraction?			
a) 1/3	b) 2/5	c) 3/4	d) 4/5	
73. The unit of mass in	the metric system is:			
a) Metre	b) <b>Kilogram</b>	c) Litre	d) Newton	
74. A polygon with 8 si	des is called:			
a) Septagon	b) Octagon	c) Hexagon	d) Pentagon	
75. Which property is u	used in: $(a + b) + c = a$	a + (b + c)?		
a) Commutative	b) Associative	c)Distributive	d) Identity	
76. Which number is a	factor of both 18 and	24?		
a) <b>6</b>	b) 5	c) 8	d) 7	
77. An angle exactly equal to 90° is called:				
a) Acute angle	b) Right angle	c)Obtuseangle	d) Reflex angle	
78. The area of a square with side 5 cm is:				
a) 10 cm <sup>2</sup>	b) 25 cm <sup>2</sup>	c) 20 cm <sup>2</sup>	d) 15 cm <sup>2</sup>	
79. Which of these is a	composite number?			
a) 13	b) 17	c) 15	d) 19	
80. The largest 3-digit	number is:			
a) 100	b) 1000	c) 9999	d) <b>999</b>	
81. The smallest 2-digit	t number is:			
a) 0	b) 11	c) 10	d) 9	
82. Which term means	"same shape but diffe	erent size"?		
a) Equal	b) Similar	c) Congruent	d) Identical	
83. The product of a nu	ımber and its recipro	cal is always:		
a) 0	b) 2	c) 1	d) Infinity	
84. A quadrilateral wit	h two pairs of equal a	djacent sides is called	l <b>:</b>	
a) Rectangle	b) <b>Kite</b>	c) Trapezium	d) Square	
MEGA MATH SYLLABUS GRADE 7 AND 8				

85.	85. Which of these is not an integer?				
	a) -5	b) 0	c) 1/2	d) 10	
86.	Which of the followi	ng represents an odd	number?		
	a) 24	b) <b>31</b>	c) 40	d) 64	
87.	A prism has how ma	ny bases?			
	a) 1	b) 2	c) 3	d) 4	
88.	Which of these is the	e smallest?			
	a) 0.5	b) 0.75	c) <b>0.25</b>	d) 1	
89.	The sum of all sides	of a polygon is called:	:		
	a) Area	b) Perimeter	c) Volume	d) Surface area	
90.	How many degrees a	re there in a right an	gle?		
	a) 45°	b) 120°	c) <b>90°</b>	d) 180°	
91.	Which of the followi	ng is a natural numbo	er?		
	a) 0	b) -1	c) 5	d) -3	
92.	The square root of 8	1 is:			
	a) 8	b) <b>9</b>	c) 10	d) 7	
93.	93. A figure with three sides is called:				
	a) Triangle	b) Rectangle	c) Square	d) Circle	
94. Which number is a multiple of both 4 and 6?					
	a) 8	b) 12	c) <b>24</b>	d) 16	
95.	Which shape has all	sides equal and all an	ngles 60°?		
	a) Square	b) Equilateral triang	<b>le</b> c)Rhombus	d) Rectangle	
96.	Which of the followi	ng is the largest?			
	a) 2/5	b) 3/5	c) 1/5	d) 4/10	
97.	Which is the correct	symbol for "is less th	an"?		
	a) =	b) >	c) <	d) ≥	
98.	A straight line has h	ow many endpoints?			
	a) 1	b) 2	c) None	d) Infinite	
99.	Which is an even pri	me number?			
	a)1	b) 3	c) <b>2</b>	d) 5	
100	100. The point where two lines meet is called:				
	a)Midpoint	b) Vertex	c) Centre	d) Edge	
101	.Which number is no	t divisible by 5?			
	a)10	b) 25	c) 45	d) <b>42</b>	
	MEGA MATH SYLLABUS GRADE 7 AND 8				

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102.A figure with six faces, all of which are squares, is a:				
a)Sphere	b) Cone	c) Cylinder	d) Cube	
103. The total number of	of sides in two pentago	ons is:		
a)8	b) 9	c) 10	d) 12	
104. The longest chord o	f a circle is the:			
a)Radius	b) <b>Diameter</b>	c) Circumference	d) Arc	
105. Which is a negative	integer?			
a)0	b) <b>-5</b>	c) 2	d) 1	
106. Which number is a	common multiple of 3	3 and 4?		
a)9	b) 12	c) 14	d) 20	
107.A quadrilateral with	h opposite sides paral	lel is a:		
a)Trapezium	b) Parallelogram	c) Kite	d) Pentagon	
108. Which of the follow	ing is an acute angle?			
a)95°	b) 90°	c) <b>60°</b>	d) 120°	
109.A 3D shape with two circular faces and one curved surface is:				
a)Cone	b) Cylinder	c) Sphere	d) Cube	
110. Which is the largest 1-digit number?				
a)8	b) <b>9</b>	c) 7	d) 6	
111.A number multiplied by itself is called its:				
a)Square	b) Cube	c) Factor	d) Multiple	
112. Which of these is no	ot a polygon?			
a)Square	b) Hexagon	c) Oval	d) Triangle	
113. The number which	is added to itself gives	double the number.	This is called:	
a)Multiplication	b) Addition	c) Subtraction	d) Division	
114. Which fraction is gr	eater?			
a)2/3	b) <b>3/4</b>	c) 4/5	d) 1/2	
115.The perimeter of a	rectangle with length	6 cm and width 4 cm	is:	
a)18 cm	b) <b>20 cm</b>	c) 22 cm	d) 16 cm	
116. Which is the correc	t Roman numeral for	50?		
a)V	b) X	c) L	d) C	
117. The face of a dice is	in the shape of a:			
a)Triangle	b) Rectangle	c) Square	d) Circle	
118.The sum of 90° and	90° is:			
a)100°	b) <b>180°</b>	c) 270°	d) 360°	

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119. Which number is a	a prime number?		
a)4	b) 6	c) 8	<b>d)</b> 7
120.A set of points all	at the same distance	from a fixed point is	a:
a)Square	b) Circle	c) Triangle	d) Polygon
121. Which of the follow	wing is not a perfect	square?	
a)49	b) 64	c) <b>50</b>	d) 81
122. The sum of the an	gles in a pentagon is:		
a)360°	b) <b>540°</b>	c) 720°	d) 900°
123. Which property is	used in $5 \times (4+2) =$	$(5\times4)+(5\times2)?$	
a)Commutative	b) Distributive	c) Associative	d) Identity
124.A triangle with tw	o equal sides is called	l:	
a)Scalene triangle	b) Isosceles triang	<b>gle</b> c) Equilateral trian	gle d) Right triangle
125. Which of the follo	wing is a prime facto	r of 21?	
a) 7	b) 9	c) 4	d) 8
126. Which number is	both a square and a	cube?	
a) <b>64</b>	b) 36	c) 49	d) 81
127. The place value o	f 4 in 4,528 is:		
a) 40	b) 400	c) <b>4000</b>	d) 4
128. The result of divid	ding one number by	another is called:	
a) Remainder	b) Quotient	c) Product	d) Factor
129. The line segment	joining the centre of	a circle to any point	on the circle is the:
a) Diameter	b) Radius	c) Chord	d) Tangent
130. Which of these is	the greatest?		
a) 0.25	b) 0.75	c) 1.0	d) 0.50
131. A triangle with al	l unequal sides is call	led:	
a) Isosceles	b) Scalene	c) Equilateral	d) Right
132. Which is the Rom	nan numeral for 100?	•	
a) L	b) <b>C</b>	c) D	d) M
133. A solid figure with	h no faces, edges, or	vertices is:	
a) Cube	b) Cylinder	c) Cone	d) <b>Sphere</b>
134. Which term descr	ribes a number that <b>c</b>	can be written as a fr	raction?
a) Irrational	b) Rational	c) Prime	d) Composite
135. The sum of the di	gits in 245 is:		
a) 11	b) 12	c) 13	d) 10

136. Which shape has two pairs of parallel sides and all sides equal?				
a) Rectangle	b) <b>Rhombus</b>	c) Trapezium	d) Kite	
137. The perimeter of a	square with side 7 cm	is:		
a) 28 cm	b) 21 cm	c) 14 cm	d) 35 cm	
138. Which is the smalle	st prime number grea	ater than 10?		
a) 11	b) 11	c) 13	d) 17	
139. How many edges do	oes a cube have?			
a) 8	b) <b>12</b>	c) 6	d) 10	
140. Which is the recipr	ocal of 2/5?			
a) 5/2	b) <b>5/2</b>	c) 2/5	d) 1/5	
141. The sum of angles i	n a hexagon is:			
a) 360°	b) <b>720°</b>	c) 540°	d) 900°	
142. The largest factor of	of a number is always:	:		
a) 0	b) The number itself	<b>f</b> c) 1	d) Half the number	
143. Which number is a	n odd multiple of 5?			
a) 10	b) 15	c) 20	d) 30	
144. Which is the larges	t 4-digit number?			
a) 999	b) <b>9999</b>	c) 1000	d) 9000	
145. A number that can only be divided by 1 and itself is:				
a) Composite	b) <b>Prime</b>	c) Even	d) Multiple	
146. The sum of 0.4 and 0.6 is:				
a) 0.9	b) <b>1.0</b>	c) 1.1	d) 0.8	
147. Which shape has ex	actly four sides?			
a) Pentagon	b) <b>Quadrilateral</b>	c) Hexagon	d) Octagon	
148. Which is the correc	et Roman numeral for	500?		
a) L	b) C	c) <b>D</b>	d) M	
149. A polygon with 10 s	sides is called:			
a) Nonagon	b) <b>Decagon</b>	c) Octagon	d) Heptagon	
150. The smallest factor of any number is always:				
a) 0	b) 1	c) The number itself	d) 2	
151. Which of these is a	mixed number?			
a) 5/3	b) 2 ½	c) ½	d) 3/5	
152. The result of multip	olying two negative nu	umbers is:		
a) Negative	b) <b>Positive</b>	c) Zero	d) Prime	
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153. Which numbe	r is a perfect cube?		
a)8	b) <b>27</b>	c) 12	d) 18
154.The perimeter	of an equilateral tria	ingle with side 6 cm is:	
a)12 cm	b) 18 cm	c) 24 cm	d) 20 cm
155.Which numbe	r is divisible by 9?		
a)45	b) 32	c) 55	d) <b>45</b>
156.The value of 1	0 <sup>2</sup> is:		
a)10	b) 1000	c) 100	d) 20
157.The largest fac	ctor of 20 is:		
a)10	b) <b>20</b>	c) 5	d) 15
158.The number o	f sides in a nonagon i	s:	
a)8	b) 7	c) <b>9</b>	d) 10
159. Which of the f	Collowing is an odd pr	ime number?	
a)19	b) 21	c) 25	d) 27
160.A number end	ling in zero is always	divisible by:	
a)2	b) 5	c) 10	d) 3
161.The square of	12 is:		
a)122	b) 112	c) 144	d) 124
162.A line segment	t has how many endp	oints?	
a) 2	b) 1	c) None	d) Infinite
163. Which fraction	on is equal to 0.5?		
a) <b>1/2</b>	b) 2/3	c) 3/4	d) 1/3
164. The sum of th	ree angles of a triang	le is always:	
a) 90°	b) 270°	c) <b>180°</b>	d) 360°
165. Which number	er is between 0.7 and	0.9?	
a) <b>0.8</b>	b) 0.6	c) 0.5	d) 1.0
166. A rectangle w	rith length 5 cm and w	vidth 3 cm has area:	
a) 15 cm <sup>2</sup>	b) 8 cm <sup>2</sup>	c) 10 cm <sup>2</sup>	d) 12 cm <sup>2</sup>
167. Which of thes	se is a prime factor of	15?	
a) 4	b) 5	c) 9	d) 12
168. How many ho	ours are there in two	days?	
a) 24	b) 12	c) <b>48</b>	d) 36

169.The Roman nur		a) <b>V</b> I	4) I V
a)L	b) X	c) XL	d) LX
	rgest 2-digit prime nu		4) 00
a)89	b) <b>97</b>	c) 91	d) 99
171.The smallest 3-		\ 100	1) 110
a)101	b) 999	c) <b>100</b>	d) 110
172. Which is the re			
a) <b>1/3</b>	b) 3/1	c) 3/3	d) 0.3
173.A heptagon has	•		
a) 7	b) 6	c) 8	d) 9
174.The sum of 0.25	5 and 0.75 is:		
a)0.9	b) <b>1.0</b>	c) 1.1	d) 0.8
175. Which of the fo	llowing is an even nu	mber?	
a)13	b) <b>28</b>	c) 17	d) 35
176. The largest fact	tor of 15 is:		
a)5	b) <b>15</b>	c) 3	d) 10
177. Which number is a multiple of both 5 and 7?			
a)25	b) 35	c) <b>35</b>	d) 30
178. The sum of ang	les in a quadrilateral	is:	
a) <b>360°</b>	b) 270°	c) 180°	d) 540°
179. Which number	is greater?		
a)0.75	b) 0.7	c) <b>0.8</b>	d) 0.79
180.A 3D shape with	h all faces rectangles	is:	
a)Cube	b) Cuboid	c) Cylinder	d) Cone
181. Which is the sm	nallest prime number	greater than 20?	
a)23	b) 21	c) 25	d) 27
182.The perimeter	of a rectangle is 2 × (l	ength +).	
a)Side	b) Width	c) Area	d) Height
183. Which fraction	is the smallest?		
a)1/3	b) 1/4	c) 1/2	d) 3/4
184.The value of 5 <sup>3</sup>	is:		
a)10	b) 15	c) <b>125</b>	d) 25
185.Which number	is divisible by both 2	and 9?	
a)12	b) 20	c) 18	d) 15

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10( )		1. 11.1		
	with all sides and angles equal is called: b) Regular polygon c) Scalene polygon		d) Cimilar malysaan	
		c) Scalene polygon	d) Similar polygon	
187. Which is the largest	unit of length?			
a)Metre	b) Centimetre	c) Kilometre	d) Millimetre	
188. The number that is neither positive nor negative is:				
a)1	b) <b>0</b>	c) -1	d) 2	
189. Which of the following	ing is an odd multiple	of 3?		
a)6	b) 12	c) 15	d) 18	
190. Which number is a	factor of both 25 and	35?		
a)10	b) <b>5</b>	c) 15	d) 7	
191.The decimal form of	f 1/5 is:			
a)0.15	b) <b>0.2</b>	c) 0.25	d) 0.5	
192.A triangle with one	obtuse angle is called:	:		
a)Acute triangle	b) Right triangle	c) Obtuse triangle	d) Equilateral triangle	
193. Which is the next pr	rime number after 29	?		
a)30	b) 31	c) <b>31</b>	d) 33	
194. The product of 10 and 0.1 is:				
a)10	b) 0.01	c) 1.0	d) 0.1	
195. Which 3D shape has only one face?				
a)Cube	b) <b>Sphere</b>	c) Cone	d) Cylinder	
196. The sum of the first two prime numbers is:				
a)3	b) <b>5</b>	c) 4	d) 6	
197. Which number is an	even factor of 36?			
a)5	b) <b>6</b>	c) 9	d) 15	
198. Which is the largest	among 0.5, 0.55, 0.6,	and 0.65?		
a)0.6	b) 0.55	c) <b>0.65</b>	d) 0.5	
199.A 3D shape with no edges but one curved surface is:				
a)Cube	b) Sphere	c) Cylinder	d) Cone	
200. The value of $7 \times 0$ is:				
a)7	b) 1	c) <b>0</b>	d) 70	
201. Which is the next m	ultiple of 9 after 45?	,	,	
a)53	b) <b>54</b>	c) 55	d) 63	
202. Which of the following a)2/3	ing is the greatest? b) 3/5	c) 4/5	d) 1/2	





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