

**CLASS 5: MATH OLYMPIAD SAMPLE PAPER**

1. Write a numerical form of Nine Lakhs Ninety-Five Thousand Three Hundred fifty-three?

- A) 995,353
- B) 993,535
- C) 995,343
- D) 995,535

2. Fill in the blank?



A)  $>$  {Greater than}    B)  $<$  {Less than}    C)  $=$  { Equal to }    D) 0 {zero}

3. I am worth more than 30 hundred, I am less than 7000 ones, my tens Digits are greater than my ones, I am multiple of 5 who am I?

- A) 5,290
- B) 5,925
- C) 5,325
- D) 7,185

4. Find the difference between the smallest 6-digit number and greatest 4-digit number?

- A) 90,001
- B) 90,000
- C) 89,999
- D) 11,111

5. What will be the outcome of the given diagram?

$$\begin{array}{c} \text{x} \\ + \\ \text{IV} \\ + \\ \text{I} \end{array} - \text{II} = ?$$

- A) XIV
- B) X.II
- C) XIII
- D) XV

6. Library has 4,587 books costing \$20 each. What is the total value of all the books in the library?



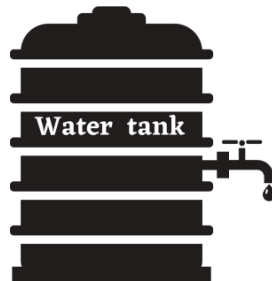
- A) \$1, 08,175
- B) \$2, 08,876
- C) \$91,740
- D) \$2,457,560

7. It was found that out of 4,875 students in class 1,987 are extremely brilliant and remaining are average. Find the number of average students in class?



- A) 4,888
- B) 1,888
- C) 3,888
- D) 2,888

8. The capacity of the tank is 8000 litres. Out of this consumption of water is 6,957 litre much water left in the tank?



- A) 1,420 litre
- B) 1,431 litre
- C) 1,442 litre
- D) 1,043 litre

9. The product of 2 numbers is 169. If LCM IS 13, find HCF?

- A) 12
- B) 14
- C) 16
- D) 13

10. The freight of 75 quintals of goods is \$ 375. Find freight for 42 quintals?

- A) 210
- B) 364
- C) 375
- D) 42

11. Sophia bought 4 kg 840 grams of wool to make a carpet. How much more wool does she need to make 5 kg?



- A) 160g
- B) 150 g
- C) 120 g
- D) 180 g

12. John picked up stone weighting 2,100 g and Drake picked up stone weighing 20,000 mg. Who picked the heavier stone?



- A) John
- B) Drake
- C) Both have picked equal weights
- D) Can't say

13. Merry bought 5kg 544 g of flour for her cakes. She used  $\frac{1}{4}$ th of the flour in making the cake. How much flour in Kg was used in each cake?



- A) 1 kg 385 g
- B) 1kg 386g
- C) 1 kg 450 g
- D) 1 kg 430 g

14. Find value of \* in the following?  $3/* = 18/24$

- A) 4
- B) 5
- C) 6
- D) 8

15. Convert  $2457/435$  in decimal?

- A) 5.64
- B) 5.647
- C) 5.649
- D) 5.648

16. What fraction of a day is 8 hours?

- A)  $\frac{1}{1}$
- B)  $\frac{1}{3}$
- C)  $\frac{1}{2}$
- D)  $\frac{1}{4}$

17. Merry dyes dress she had yet to dye 30 dresses she has so far finished 20 dresses. What fraction of dresses she finished?



- A)  $\frac{3}{2}$
- B)  $\frac{3}{5}$
- C)  $\frac{2}{3}$
- D) 1

18. Maddie read  $\frac{3}{5}$  th of 75 pages of his lessons. How many more pages does he need to complete the lesson?



- A) 0
- B) 20
- C) 30
- D) 10

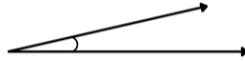
19.  $\frac{4}{5}$  of students in school are girls,  $\frac{1}{5}$  th of these girls are studying in upper class. What fraction of girls are studying in the lower class?

- A) 2    B)  $\frac{2}{3}$     C)  $\frac{3}{5}$     D) 1

20. If it costs \$ 1500 to fence rectangular park of length 20 m at rate of \$25 per meter. Find the width of rectangular park.

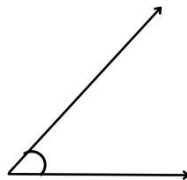
- A) 5 m    B) 10m    C) 15m    D) 20m

21. What would be the measure of an angle given in the figure below?



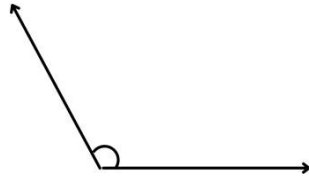
- A)  $16^\circ$   
B)  $30^\circ$   
C)  $95^\circ$   
D)  $180^\circ$

22. What would be the measure of an angle given in the figure below?



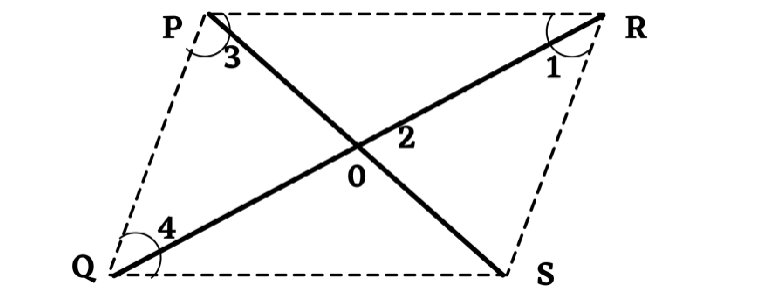
- A)  $35^\circ$   
B)  $60^\circ$   
C)  $95^\circ$   
D)  $108^\circ$

23. What would be the measure of an angle given in the figure below?



- A)  $35^\circ$
- B)  $140^\circ$
- C)  $95^\circ$
- D)  $108^\circ$

Observe the given figure and answer the question (24 to 27)



24. Name the angle marked by 1 in 2 different ways?

- A) SOP
- B) ORS
- C) PQO
- D) QOR

25. Name the vertex of angle marked by 2.

- A) O    B) P    C) Q    D) R

26. Name the arms of angle QPR

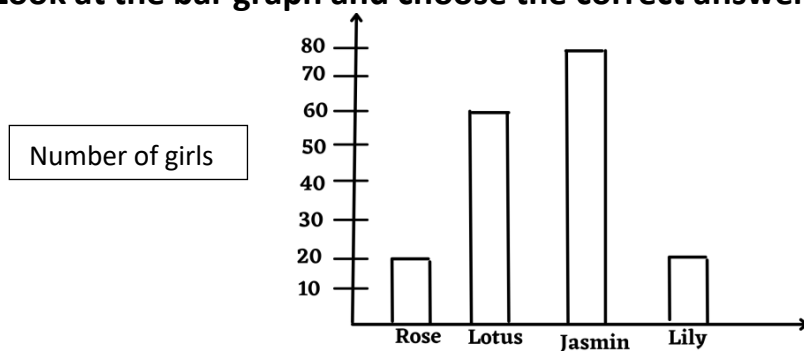
- A) RS and QS
- B) PR and PQ
- C) PR and QS
- D) PQ and RS



27. Name the angle whose arms are SQ and SP.

- A) PSQ
- B) PSR
- C) PQR
- D) QRS

Look at the bar graph and choose the correct answer:



28. Which flower is liked by maximum girls?

- A) Rose
- B) Lotus
- C) Jasmin
- D) Lily

29. How many girls like Lotus flower?

- A) 20
- B) 50
- C) 60
- D) 80

30. How many more girls like lotus than rose?

- A) 20
- B) 30
- C) 40
- D) 50

31. John withdrew \$789 from his savings account. After the withdrawal, there was \$12,345 remaining in the account. How much money was in the account before the withdrawal?

- A) \$13,134
- B) \$11,556
- C) \$13,868
- D) None of the above

32. What is the GCD (Greatest Common Divisor) of 24 and 36?"

- A) 12
- B) 8
- C) 6
- D) 18

33. What is the expanded form of the number 4,582?

- A)  $4,000 + 500 + 80 + 2$
- B)  $4,500 + 80 + 2$
- C)  $4,000 + 500 + 8 + 2$
- D)  $4,000 + 50 + 8 + 2$

34. Find the LCM of 12 and 18?

- A) 12
- B) 18
- C) 36
- D) 72

35. If a rectangle has a length of 9 cm and a width of 4 cm, what is its perimeter?

- A) 26 cm
- B) 34 cm
- C) 18 cm
- D) 13 cm

36. Express  $\frac{3}{4}$  as a decimal?

- A) 0.25
- B) 0.3
- C) 0.5
- D) 0.75

37. Find the perimeter of a square with a side length of 7 inches?

- A) 14 inches
- B) 21 inches
- C) 28 inches
- D) 49 inches

38. The length of a rectangle is 12 cm, and its width is 5 cm. What is the area of the rectangle ?

- A)  $60 \text{ cm}^2$
- B)  $72 \text{ cm}^2$
- C)  $120 \text{ cm}^2$
- D)  $17 \text{ cm}^2$

39. If you have an angle measuring 45 degrees, what type of angle is it?

- A) Acute angle
- B) Right angle
- C) Obtuse angle
- D) Reflex angle

40. Merry transferred \$567 out of her bank account. As a result, the account has \$ 37,654 left in it. How much money was in the account before transfer?

- A) 37,087
- B) 37,654
- C) 38,221
- D) None of the above

41. A gum factory makes 6,789 sticks of gum per day. How many sticks of gum will the factory make in 75 days?

- A) 3, 47,126
- B) 5, 09,175
- C) 6, 34,521

D) 7, 65,476

42. While playing carom, Merry scored 5,674 points. She and her cousin together have 10987 points; how many points does her cousin have?

A) 16,661

B) 10,987

C) 5,674

D) 5,313

43. Merry has 80 meter of cloth, she needs to know how many centimetresthat cloth is?

A) 900

B) 80,000

C) 8,000

D) 800

44. Merry wants to go to the picnic. Picnic spot A is at the distance of 540km/s from her hometown and another spot B is at the distance of 80,000meters from her hometown. Which is the nearer spot?

A) A

B) B

C) Both

D) Can't say

45. Jessica's height 124.50 cm. She stands on a stool of 30 cm. What is the combined height?

A) 154.4138 cm

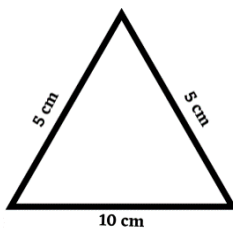
B) 154.50 cm

C) 15825.5 cm

D) 158.5 cm

46. Merry has 49.90 litres of juice, he pours it in 15 bottles equally. How much juice is there in each bottle?
- A) 3.32 litres
  - B) 3.326 litres
  - C) 3.327 litres
  - D) 3.300 litres
47. Out of 470 students in music class,  $\frac{3}{5}$ th are in 7th grade, howmany 7th grade students are in music class?
- A) 282
  - B) 188
  - C) 400
  - D) 285
48. Nine tenth of 550 students in class play cricket and the remaining play badminton. How many students play badminton?
- A) 495
  - B) 550
  - C) 55
  - D) No one
49. Five tenth part of the garden is full of red flowers. How much part isleft?
- A)  $\frac{1}{10}$ th
  - B)  $\frac{5}{10}$ th
  - C)  $\frac{2}{10}$ th
  - D)  $\frac{3}{10}$ th

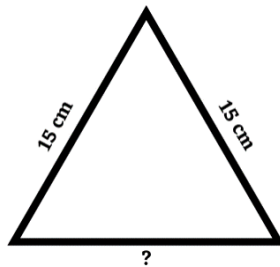
50. Find the perimeter of following figure.



- A) 20 cm
- B) 24 cm

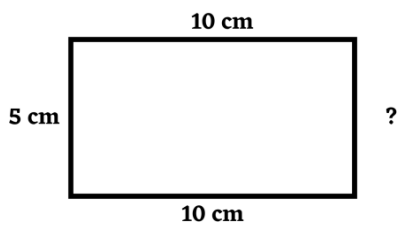
- C) 30 cm
- D) 22 cm

51. If the perimeter of a given triangle is 35 cm, find the missing side.



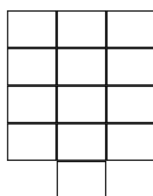
- A) 5 cm
- B) 15 cm
- C) 10 cm
- D) 20 cm

52. Find the missing side.



- A) 5 cm
- B) 10 cm
- C) 4 cm
- D) 15 cm

53. Find the area of each shape by counting the square?



- A) 13
- B) 14
- C) 15
- D) 16

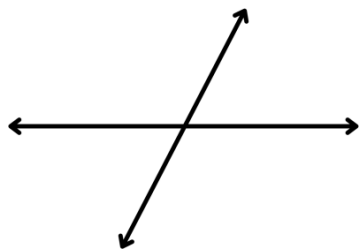
54. There are 16 small squares and the area of each small square is 1sqcm find perimeter?

- A) 11 cm
- B) 18 cm
- C) 12 cm
- D) 16 cm

55. The area of the room is 100 square cm. If the side of the room increased by 10 % then what will be the new area of the room?

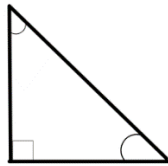
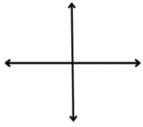
- A) 119 sq.cm
- B) 120 sq.cm
- C) 121 sq.cm
- D) 122 sq.cm

56. What are these lines called



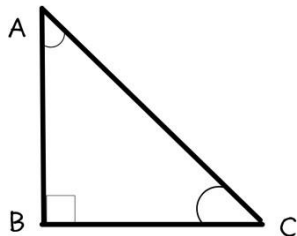
- A) Intersecting
- B) Parallel
- C) Perpendicular
- D) All of the above

57. What is the measure of angle formed by perpendicular lines in a given figure?



- A)  $30^\circ$
- B)  $60^\circ$
- C)  $90^\circ$
- D)  $80^\circ$

58. What is the sum of angles A and C in a given figure?



- A)  $90^\circ$
- B)  $30^\circ$
- C)  $45^\circ$
- D)  $180^\circ$

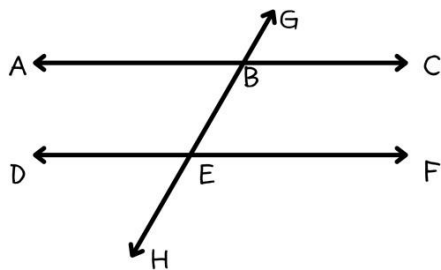
59. What is the measure of angle made by the hands of a clock?





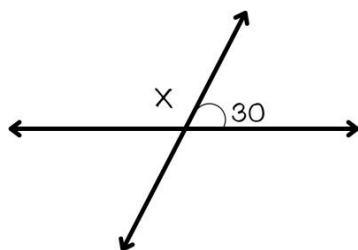
- A)  $150^\circ$
- B)  $120^\circ$
- C)  $30^\circ$
- D)  $100^\circ$

60. Which of the following is the pair of adjacent angles?



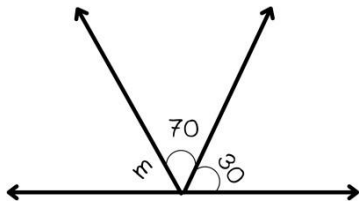
- A) ABG & GBC
- B) ABG & FEH
- C) CBE & BEF
- D) None of the above

61. Find the value of X?



- A)  $119^\circ$
- B)  $20^\circ$
- C)  $150^\circ$
- D)  $130^\circ$

62. Find the value of  $m$ ?



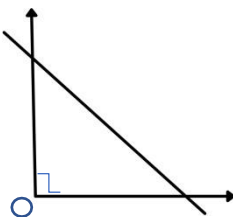
- A)  $80^\circ$
- B)  $50^\circ$
- C)  $70^\circ$
- D)  $100^\circ$

63. What is the measurement of angle formed by the hands of the clock?



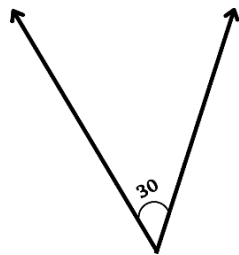
- A)  $150^\circ$
- B)  $60^\circ$
- C)  $90^\circ$
- D)  $180^\circ$

64. What is the type of angle formed at O?



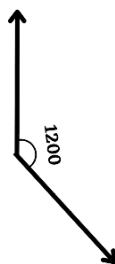
- A) Obtuse angle
- B) Right angle
- C) Obtuse
- D) None of the above

65. What is the type of angle formed?



- A) Obtuse angle
- B) Right angle
- C) Obtuse
- D) None of the above

66. What is the type of angle formed?

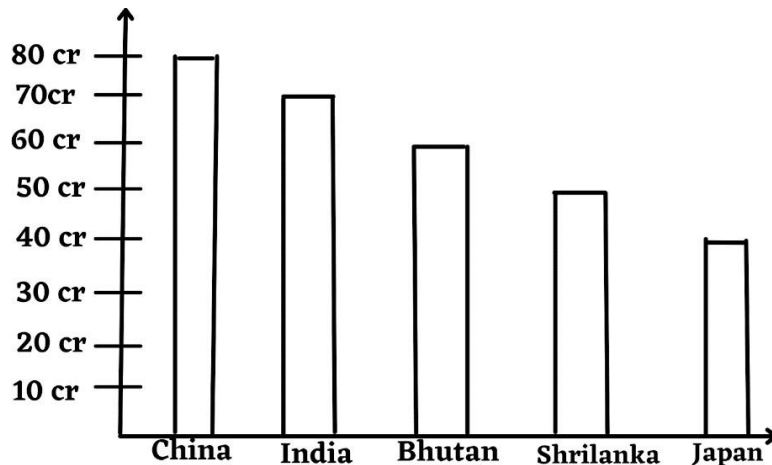


- A) Obtuse angle
- B) Right angle
- C) Obtuse
- D) None of the above

67. What is the degree measurement of an acute angle?

- A) Less than 90 degrees
- B) Exactly 90 degrees
- C) More than 90 degrees
- D) 180 degrees

Use the following bar diagram to answer the question? (68 to 71) Given below is the bar diagram of population of 5 Asian countries in theyear 1970.



68. Which country has the most population?

- A) China
- B) India
- C) Bhutan
- D) Shrilanka

69. How much more population does China have than India?

- A) 10 cr
- B) 20 cr
- C) 5 cr
- D) 15 cr

70. Which country has the least population?

- A) China
- B) India
- C) Bhutan
- D) Japan

71. What is the total population of all the 5 countries?

- A) 240 cr
- B) 250 cr

- C) 270 cr
- D) 300 cr

**Answer the following questions using pictograph**

**Monday**



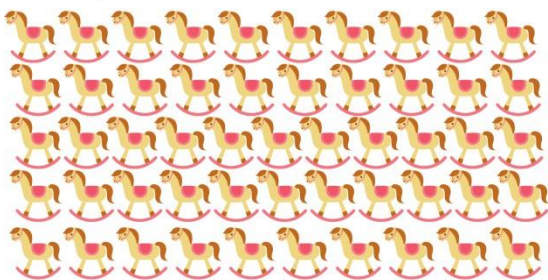
**Tuesday**



**Wenesday**



**Thursday**



Friday



Saturday



sunday



72. What is the difference between number of toys sold on Saturday and Sunday?

- A) 40
- B) 50
- C) 15
- D) 70

73. How many more toys sold on Tuesday than Monday?

- A) 10
- B) 30
- C) 20
- D) 50

74. If one toy costs \$10, How much \$ shopkeeper earned on Sunday?

- A) 350
- B) 450
- C) 750
- D) 250

75. If each toy costs \$35, how much does the shopkeeper earn during the week?

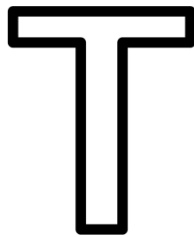
- A) \$5,250
- B) \$8,750

- C) \$ 5,380
- D) \$ 5,320

76. If each toy costs \$10, how much less amount the shopkeeper earned on Monday than Sunday?

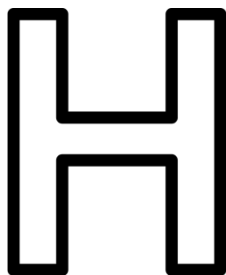
- A) 175
- B) 50
- C) 200
- D) 30

77. How many lines of symmetry can be formed?



- A) 1
- B) 2
- C) 3
- D) 0

78. How many lines of symmetry can be formed?



- A) 1
- B) 2
- C) 3
- D) 0

79. If length of square is 12 cm find area in  $\text{cm}^2$ ?

- A) 144
- B) 140
- C) 24
- D) 48

80. If the side of the square is tripled. How many times will its area be compared to the area of the original square?

- A) 1 times
- B) 5 times
- C) 7 times
- D) 9 times

81. The rectangular garden is 40 m long and 30 m wide. Find an area?

- A) 1200
- B) 1500
- C) 1000
- D) 1600

82. Find HCF of 24 and 32.

- A) 8
- B) 4
- C) 6
- D) 7

83. There are 15000 students in school containing 15 sections, if each section have equal no of students, find the number of students in each section?

- A) 1000
- B) 1500
- C) 150
- D) 15000

84. Bunny is picking flowers from the basket. She picks 111 from first basket,

122 from second, 133 from third, and  
144 from fourth. If the pattern



continues, how many flowers will she pick from the fifth basket?

- A) 150
- B) 152
- C) 155
- D) 150

85. Which is better to buy?

- A) 5 pack of ice cream for \$ 500 6 pack of ice creams for \$ 510
- B) 5 pack of ice cream for \$ 500 6 pack of ice creams for \$ 510
- C) Both A&B
- D) None of the above

86. 20 Packs of juice costs \$ 716.20 what is the unit price?

- A) 35.81
- B) 35.8
- C) 35.79
- D) 35.78

87. A store sells packs of chocolates that have 20 chocolates in each pack. The packs are arranged 15 across and 10 deep on each shelf, how many total chocolates are there in store?

- A) 1500
- B) 5000
- C) 3000
- D) 2000

88. 14 families in society together bought 8 sacks of wheat, each 4 weighing 98 kilos. If they shared all the wheat equally, what was the share of each family?

- A) 40 kg
- B) 45 kg
- C) 50 kg
- D) 56 kg

89. Which of the following numbers has 7 in the thousands place?

- A) 5,789
- B) 3,475
- C) 7,123
- D) 6,234

90. Estimate the sum of 2,648 and 4,321 to the nearest hundred?

- A) 7,000
- B) 7,500
- C) 6,500
- D) 6,000

91. If you have the numbers 2, 4, 6, 8, which one is an odd number?

- A) 2
- B) 4
- C) 6
- D) 8

92. If you subtract 2,541 from 8,769, what is the result?

- A) 6,221
- B) 6,244
- C) 6,224
- D) 6,228

93. If 1 mile is approximately equal to 1.6 kilometers, how many kilometers are there in 3 miles?

- A) 4.8 km
- B) 4.9 km
- C) 4.7 km
- D) 5.0 km

94. What is the decimal form of the fraction  $\frac{3}{8}$ ?

- A) 0.375
- B) 0.25
- C) 0.875
- D) 0.625

95. Add 0.2 and 0.35?

- A) 0.55
- B) 0.75
- C) 0.85
- D) 0.65

96. Find the area of a square garden with a side length of 6 meters?

- A) 12 square meters
- B) 24 square meters
- C) 36 square meters
- D) 72 square meters

97. The length of a rectangle is 8 inches, and its area is 64 square inches. What is the width of the rectangle ?

- A) 4 inches
- B) 6 inches
- C) 8 inches
- D) 16 inches

98. Which of the following figures has rotational symmetry

- A) Triangle
- B) Square
- C) Rectangle
- D) Pentagon

99. Write the number 3,247 in words?  
A) Three thousand two hundred forty-seven  
B) Thirty-two hundred forty-seven  
C) Three thousand twenty-four seven  
D) Three hundred twenty-four seven
100. Arrange the following words in meaningful order?  
A) 4,512  
B) 4,125  
C) 4,251  
D) 4,152
101. If you multiply 3,486 by 7, what is the result?  
A) 24,402  
B) 24,404  
C) 24,876  
D) 24,770
102. Find the sum of 1,345 and 2,678 ?  
A) 4,023  
B) 3,123  
C) 3,913  
D) 4,913
103. Convert 1 miles into feet?  
A) 2,640 feet  
B) 3,280 feet  
C) 5,280 feet  
D) 6,720 feet
104. What is the fraction form of the decimal 0.75?  
A)  $\frac{1}{5}$   
B)  $\frac{3}{4}$   
C)  $\frac{4}{3}$   
D)  $\frac{5}{4}$

105. Subtract 0.6 from 1.2?

- A) 0.8
- B) 0.6
- C) 1.8
- D) 0.4

106. The length of a rectangle is 15 meters, and its width is 8 meters. What is the perimeter of the rectangle?

- A) 23 meters
- B) 30 meters
- C) 46 meters
- D) 60 meters

107. Find the area of a rectangle with a length of 9 inches and a width of 3 inches ?

- A) 12 square inches
- B) 18 square inches
- C) 27 square inches
- D) 36 square inches

108. Convert 2.75 hours into minutes?

- A) 165 minutes
- B) 245 minutes
- C) 175 minutes
- D) 275 minutes

109. If 1 ton is equal to 2,000 pounds, how many pounds are there in 3 tons?

- A) 5,000 pounds
- B) 6,000 pounds
- C) 2,500 pounds
- D) 3,000 pounds

110. Add 0.75 and 0.25?

- A) 0.5
- B) 1.0
- C) 1.5
- D) 0.1

111. What is the value of the digit 6 in the number 6,842?

- A) 6
- B) 60
- C) 600
- D) 6,000

112. What type of angle measures exactly 90 degrees?

- A) Acute angle
- B) Right angle
- C) Obtuse angle
- D) Straight angle

113. An angle that measures more than 90 degrees but less than 180 degrees is called a:

- A) Acute angle
- B) Right angle
- C) Obtuse angle
- D) Reflex angle

114. If angle A measures 75 degrees and angle B measures 45 degrees, what is the total measure of angles A and B?

- A) 110 degrees
- B) 120 degrees
- C) 130 degrees
- D) 140 degrees

115. Sara has a rectangular garden. She measures one angle in the garden to be 120 degrees, and the adjacent angle is a right angle. What is the measure of the third angle in the garden?

- A) 30 degrees
- B) 45 degrees
- C) 60 degrees
- D) 90 degrees

116. A triangle has one angle measuring 75 degrees, another measuring 45 degrees. What is the measure of the third angle in the triangle?

- A) 30 degrees
- B) 45 degrees
- C) 60 degrees
- D) 90 degrees

117. In a parallelogram, if one angle measures 110 degrees, what is the measure of the opposite angle?

- A) 70 degrees
- B) 110 degrees
- C) 180 degrees
- D) 90 degrees

118. If all angles in a quadrilateral add up to 360 degrees, and three angles measure 85 degrees, 75 degrees, and 95 degrees, what is the measure of the fourth angle?

- A) 80 degrees
- B) 105 degrees
- C) 90 degrees
- D) 110 degrees

119. Write the number 9,723 in expanded form

- A)  $9,000 + 700 + 20 + 3$
- B)  $90,000 + 7000 + 200 + 3$
- C)  $900 + 70 + 20 + 3$
- D)  $9,000 + 720 + 3$

120. If you have \$12.50, how much money do you have in cents?

- A) 125 cents
- B) 1,250 cents
- C) 12,500 cents

D) 125,000 cents

121. If a rectangle has a length of 9 inches and a width of 4 inches, what is its area in square inches?

- A) 13 square inches
- B) 36 square inches
- C) 45 square inches
- D) 72 square inches

122. How many sides does a pentagon have?

- A) 3
- B) 4
- C) 5
- D) 6

123. Find an odd one out

2, 4, 8, 14, 32, 64

- A) 8
- B) 14
- C) 64
- D) 4

124. Find an odd one out?

- A) 4
- B) 25
- C) 9
- D) 18

125. Jenny has 56 m of ribbon. If she cuts 30m 29 cm. What length of ribbon will be left?

- A) 25.698 m
- B) 25.70 m
- C) 25.71 m
- D) 25 m



• ANSWER KEY

QUESTION NO.	ANSWER
1	A
2	A
3	B
4	A
5	C
6	C
7	D
8	D
9	D
10	A
11	A
12	A
13	B
14	A
15	A
16	B
17	C
18	C
19	C
20	B
21	A
22	A
23	D
24	B
25	A
26	B
27	A
28	C
29	C
30	C
31	A
32	A
33	A
34	C
35	A
36	A
37	C
38	A
39	A
40	C

QUESTION NO.	ANSWER
41	B
42	D
43	C
44	B
45	B
46	A
47	A
48	C
49	B
50	A
51	A
52	A
53	A
54	D
55	C
56	A
57	C
58	A
59	D
60	A
61	C
62	A
63	A
64	B
65	A
66	B
67	
68	A
69	A
70	D
71	D
72	C
73	A
74	D
75	B
76	B
77	A
78	B
79	A
80	D

QUESTION NO.	ANSWER	QUESTION NO.	ANSWER
81	A	124	D
82	A	125	C
83	A		
84	C		
85	B		
86	A		
87	C		
88	D		
89	C		
90	A		
91	A		
92	D		
93	A		
94	A		
95	A		
96	C		
97	C		
98	B		
99	A		
100	A		
101	A		
102	A		
103	C		
104	B		
105	B		
106	C		
107	C		
108	A		
109	B		
110	B		
111	D		
112	B		
113	C		
114	B		
115	C		
116	C		
117	A		
118	D		
119	A		
120	B		
121	B		
122	C		
123	B		

