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## MATHS

## BOOKS - SRS PUBLICATION

## TRIANGLES

## Question Bank

1. Mark any three collinear points $A, B$ and $C$ in your notebook, join them to make a triangle and name it.
2. Observe the given triangle and answer the following:
ollowing: 4


Write the interior points of the triangle.

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3. Observe the given triangle and answer the following:
ollowing:

4


Write the points marked on the triangle.
4. Observe the given triangle and answer the following:
ollowing:

4


Write the exterior points of the triangle.

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5. Observe the given triangle and answer the following :

The opposite side to vertex $L$ is

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6. Observe the given triangle and answer the following :

The opposite side to LK is

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7. Observe the given triangle and answer the following :

The opposite angle to KL is

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8. Observe the given triangle and answer the following :

The opposite vertex to $L M$ is

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9. Classify the following angles into acute, obtuse and right angles :
$20^{\circ}, 50^{\circ}, 102^{\circ}, 47^{\circ}, 125^{\circ}, 65^{\circ}, 36^{\circ}, 90^{\circ}, 95^{\circ}$ and $110^{\circ}$

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10. Write the intersecting point and concurrent point in the adjacent figure.

11. Classify the following triangles according to the length of their sides:


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12. Classify the following triangles according to the measure of their angles.


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13. Classify the following triangles based on the length of their sides.


## - Watch Video Solution

14. Classify the following triangles based on the measure of angles.


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15. Classify the following triangles based on their sides and also on their angles.
a) 1


16. Which of the following angles form a triangle ?
$60^{\circ}, 70^{\circ}, 80^{\circ}$

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17. Which of the following angles form a triangle ?
$65^{\circ}, 45^{\circ}, 70^{\circ}$

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18. Which of the following angles form a triangle ?
$40^{\circ}, 50^{\circ}, 60^{\circ}$
19. Which of the following angles form a triangle ?
$60^{\circ}, 30^{\circ}, 90^{\circ}$

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20. Which of the following angles form a triangle ?
$38^{\circ}, 102^{\circ}, 40^{\circ}$

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21. Which of the following angles form a triangle ?
$100^{\circ}, 30^{\circ}, 45^{\circ}$

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22. Sum of two interior angles of a triangle is $106^{\circ}$.

Find the third angle.

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23. In $\triangle P Q R$, if $\angle P=65^{\circ}$ and $\angle Q=50^{\circ}$ then find $\angle R$.

## 24. Find the missing angles in each of the following

 triangle.
25. Find the missing angles in each of the following triangle.


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26. Find the missing angles in each of the following triangles.


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27. Find the value of $x$ in each of the given triangles.


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28. Find the value of $x$ in each of the given triangles.


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29. Find the value of ' $x$ ' and ' $y$ ' in each of the following triangles.


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30. Find the value of ' $x$ ' and ' $y$ ' in each of the following triangles.

31. In a right angled triangle one acute angle is $37^{\circ}$.

Find the other acute angle.

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32. In a triangle, the angles are $2 x^{\circ},(x+30)^{\circ}$ and $(x-10)^{\circ}$. Then Find the Angles.

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33. If one angle of a triangle is $80^{\circ}$, find the other two angles which are equal.

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34. State true or false for each of the following statements: A triangle can have two right angles.

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35. State true or false for each of the following statements: A triangle can have two acute angles.
36. State true or false for each of the following statements: A triangle can have two obtuse angles.

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37. The angles of a triangle are in the ratio 2:4:3, then find the angles.

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38. Write the exterior angles of $\triangle X Y Z$


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39. Find the exterior angles in each of the following triangle:


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40. Find the exterior angles in each of the following triangle:

* 

b)

41. Find the value of ' $x$ ' in the following figure.
tigures.
a)
$\because$
,


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42. Find the value of ' $x$ ' in the following figure.
b).

43. If the exterior angle of a triangle is $110^{\circ}$ and it's interior opposite angles are $x^{\circ}$ and $(x+10)^{\circ}$ then
find the value of ' $x$ '

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44. Find the values of ' $x$ ' and ' $y$ ' in each of the following figure.


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45. Two sides of a triangle are5 cm and 4 cm respectively. Write any three possible measurement that suit for the third side.
46. The lengths of line segments are $3 \mathrm{~cm}, 5 \mathrm{~cm}, 6 \mathrm{~cm}$ and 9 cm .

From the above measurements which group of the line segments can form a triangle.

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47. The lengths of line segments are $3 \mathrm{~cm}, 5 \mathrm{~cm}, 6 \mathrm{~cm}$ and 9 cm .

Which group of line segments can not form a triangle, give the reason
48. $\triangle A B C$ is an isosceles triangle in which $\mathrm{AB}=$ AC . Show $\angle B=\angle C$ (Hint : Draw `APbotBC) (Using RHS congruence rule)

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49. Find the values of ' $x$ ' in each of the adjacent triangle.


## - Watch Video Solution

50. Find the values of ' $x$ ' in each of the adjacent triangle.


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51. Which of the following statements are true in the following diagram.

A. $O Y<O T$
B. $T Y<T O$
C. $\angle Y<\angle T$
D. $T Y<O Y$

## Answer:

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52. How many right angles exist in a triangle ?

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53. Which is the longest side in $\triangle X Y Z$ having right angle at ' $Z$ '?
54. Is it the sum of any two angles of a triangle is always greater than the third angle? Give examples to justify your answer.

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55. Write any two possible measurements to be suitable for the following triangles.

Right angled triangle.

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56. Write any two possible measurements to be suitable for the following triangles.

Obstuse angled triangle.

## - View Text Solution

57. Write any two possible measurements to be suitable for the following triangles.

Acute angled triangle.

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58. Find the value of ' $x$ ' and ' $y$ ' in the adjacent figure.


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59. In $\triangle A B C$ angleA is four times to B and C is five times to $B$. Find the three angles.

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60. Ladder was faced to a wall. One end of the ladder was making $70^{\circ}$ with the floor. Find the angle of the other end of the ladder with the wall.

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61. Construct the triangle with the measurement given in the following table .

| Triangle | Measurements |
| :--- | :--- |
| $\Delta \mathrm{ABC}$ | $\mathrm{BC}=6.5 \mathrm{~cm}, \mathrm{CA}=6.3 \mathrm{~cm}, \mathrm{AB}=4.8 \mathrm{~cm}$. |
| $\Delta \mathrm{PQR}$ | $\mathrm{PQ}=8 \mathrm{~cm}, \mathrm{QR}=7.5 \mathrm{~cm}, \angle \mathrm{PQR}=85^{\circ}$ |
| $\Delta \mathrm{XYZ}$ | $\mathrm{XY}=6.2 \mathrm{~cm}, \angle \mathrm{Y}=130^{\circ}, \angle \mathrm{Z}=70^{\circ}$ |
| $\Delta \mathrm{ABC}$ | $\mathrm{AB}=4.8 \mathrm{~cm}, \mathrm{AC}=4.8 \mathrm{~cm}, \angle \mathrm{~B}=35^{\circ}$ |
| $\Delta \mathrm{MNP}$ | $\angle \mathrm{N}=90^{\circ}, \mathrm{MP}=11.4 \mathrm{~cm} ., \mathrm{MN}=7.3 \mathrm{~cm}$. |
| $\Delta \mathrm{RKS}$ | $\mathrm{RK}=\mathrm{KS}=\mathrm{SR}=6.6 \mathrm{~cm}$. |
| $\triangle \mathrm{PTR}$ | $\angle \mathrm{P}=65^{\circ}, \mathrm{PT}=\mathrm{PR}=5.7 \mathrm{~cm}$. |

62. If two angles in a triangle are $75^{\circ}, 55^{\circ}$ what type of triangle is that?
A. Obtuse
B. Acute
C. Right
D. Scalene

Answer: B
63. The following is the representation of the segment.
A. $\overrightarrow{A B}$
B.
C.
D.

Answer: C

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64. From the adjacent figure find the values of $x$ and $y$.

A. $x=65^{\circ}, y=60^{\circ}$
B. $x=55^{\circ}, y=60^{\circ}$
C. $x=60^{\circ}, y=55^{\circ}$
D. $x=60^{\circ}, y=65^{\circ}$

Answer: C
65. If the angle in a triangle are in the ratio of 1:2:3, then the smallest angle in radius is
A. $30^{\circ}$
B. $60^{\circ}$
C. $90^{\circ}$
D. $80^{\circ}$

Answer: A
66. A triangle can have altitudes.
A. 1
B. 2
C. 3
D. 4

Answer: A

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67. If an exterior angle of a triangle is $130^{\circ}$ and one
interior opposite angle.
A. $60^{\circ}$
B. $80^{\circ}$
C. $70^{\circ}$
D. $50^{\circ}$

## Answer: C

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68. If in a triangle two angles are equal and the third angle is $120^{\circ}$, what are the equal angle?
A. $40^{\circ}, 40^{\circ}$
B. $30^{\circ}, 30^{\circ}$
C. $20^{\circ}, 20^{\circ}$
D. $50^{\circ}, 50^{\circ}$

Answer: B

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69. Find x and y value from the figure.

A. $x=40^{\circ}, y=80^{\circ}$

$$
\begin{aligned}
& \text { B. } x=80^{\circ}, y=40^{\circ} \\
& \text { C. } x=70^{\circ}, y=60^{\circ} \\
& \text { D. } x=80^{\circ}, y=70^{\circ}
\end{aligned}
$$

Answer: A

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70. An obtuse angled triangle has............ acute angles.
A. one
B. two
C. three
D. zero

Answer: B

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71. The angle of an equilateral triangle is
A. $70^{\circ}$
B. $50^{\circ}$
C. $60^{\circ}$
D. $40^{\circ}$

## Answer: C

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72. In a right angled isosceles triangle the acute angles.
A. $30^{\circ}$
B. $40^{\circ}$
C. $50^{\circ}$
D. $45^{\circ}$

Answer: D

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73. An acute angled triangle has ........... acute angles.
A. 1
B. 2
C. 3
D. 4

Answer: C

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74. A triangle which has maximum two acute angles is
A. Obtuse
B. Right
C. A and B
D. None

Answer: C

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75. The following are acute angled triangles
A. Equilateral
B. Isosceles
C. Scalene
D. Above all

## Answer: D

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76. The following is the possible third side if the two
sides are $6 \mathrm{~cm}, 9 \mathrm{~cm}$
A. 1 cm
B. 2 cm
C. 3 cm
D. 6 cm

Answer: D

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77. Match the following
i) $\mathrm{AB}+\mathrm{BC}>\quad( \pm \boldsymbol{H}+\mathrm{a}) \mathrm{BC}$
*ii) $\mathrm{BC}-\mathrm{CA} \leqslant \quad$ ( ) b) CA
iii) AD is altitude,
then $\mathbf{A D} \leqslant \quad(), c) \mathbf{A B}$
A. i-a,ii-b,iii-c
B. i-b,ii-a,iii-c
C. i-b,ii-c,iii-c
D. i-c,ii-b,iii-a

## Answer: C

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78. The altitude of the triangle lies outside of the triangle.
A. Acute angled
B. Right angled
C. Obtuse angled
D. Scalene

## Answer: C

## - Watch Video Solution

79. In $\triangle A B C$ id angleA $=$ 3angle B and AngleC $=2$ angleB $f \in d$ thethree $\angle$ softriangleABC'.
A. $90^{\circ}, 30^{\wedge}$ @, $60^{\wedge}$ @
B. $60^{\circ}, 60^{\circ}, 60^{\circ}$
C. $90^{\circ}, 45^{\circ}, 45^{\circ}$
D. $50^{\circ}, 40^{\circ}, 90^{\circ}$

Answer: A

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80. In adjacent figure $x^{0}=\ldots \ldots \ldots$.
${ }_{\frac{B}{B}}^{B}$
A. $70^{\circ}$
B. $30^{\circ}$
C. $100^{\circ}$
D. $40^{\circ}$

## Answer: D

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81. Which of the following are the possible sides of a triangle?
A. $3 \mathrm{~cm}, 5 \mathrm{~cm}, 10 \mathrm{~cm}$
B. $4 \mathrm{~cm}, 4 \mathrm{~cm}, 8 \mathrm{~cm}$,
C. $3 \mathrm{~cm}, 4 \mathrm{~cm}, 5 \mathrm{~cm}$
D. $10 \mathrm{~cm}, 5 \mathrm{~cm}, 2 \mathrm{~cm}$

## Answer: C

## - Watch Video Solution

82. If the three angles of a triangle are in the ratio

1:2:3, then the angles are
A. $40^{\circ}, 60^{\circ}, 80^{\circ}$
B. $30^{\circ}, 60^{\circ}, 90^{\circ}$
C. $50^{\circ}, 100^{\circ}, 150^{\circ}$
D. $30^{\circ}, 50^{\circ}, 100^{\circ}$

Answer: B

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83. In $\triangle X Y Z \angle X=30^{\circ}, \angle Y=45^{\circ}$ then find $\angle Z$
A. $75^{\circ}$
B. $15^{\circ}$
C. $95^{\circ}$
D. $105^{\circ}$

## Answer: D

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## 84. In the given figure, the values of $x+y$ is

A. $1206 \circ$
B. $190^{\circ}$
C. $110^{\circ}$
D. $180^{\circ}$

Answer: B

## 85. Angles of a triangle are $30^{\circ}, 110^{\circ}, x^{\circ}$ then x is

A. $50^{\circ}$
B. $40^{\circ}$
C. $60^{\circ}$
D. $15^{\circ}$

Answer: B

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# 86. The lengths of two sides of an isosceles triangle 

 are $7 \mathrm{~cm}, 8 \mathrm{~cm}$ then the possible third side is of lengthA. 7 cm
B. 9 cm
C. 8 cm
D. 7 or 8 cm

## Answer: D

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87. The exterior angle of an equilateral triangle is
A. $60^{\circ}$
B. $120^{\circ}$
C. $150^{\circ}$
D. $90^{\circ}$

Answer: B

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88. The angles of a triangle are in the ratio 3:1:2
then biggest angle is
A. $60^{\circ}$
B. $120^{\circ}$
C. $90^{\circ}$
D. $30^{\circ}$

## Answer: C

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89. The two angles of a triangle are complementary
then it is ............ triangle
A. Acute angled
B. Obtuse angled
C. Right angled
D. Equilateral

Answer: C

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90. Find x in the figure

A. $40^{\circ}$
B. $60^{\circ}$
C. $50^{\circ}$
D. $70^{\circ}$

Answer: D

- Watch Video Solution

91. Find $Z$ in the figure

A. $70^{\circ}$
B. $60^{\circ}$
C. $50^{\circ}$
D. $40^{\circ}$

Answer: A

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92. In a $\triangle P Q R$ if $\angle P=100^{\circ}$ and $\angle Q=\angle R$
then $\angle P+\angle R=\ldots \ldots \ldots \ldots$
A. $100^{\circ}$
B. $180^{\circ}$
C. $140^{\circ}$
D. $40^{\circ}$

## Answer: C

## - Watch Video Solution

## 93. Match the following

## Group - A.

i) $60^{\circ}, 60^{\circ}, 60^{\circ}$
$45^{\circ}, 45^{\circ}, 90^{\circ}$
iii) $100^{\circ}, 40^{\circ}, 40^{\circ}$
iv) $90^{\circ}, 30^{\circ}, 60^{\circ}$.
v) $50^{\circ}, 50^{\circ}, 80^{\circ}$

Group - B
a) 'Obtuse angled triangle
b) Isosceles triangle :
c) Right angled triangle
d) Equilateral triangle
e) Right angled isosceles triangle
A. i-a,ii-b,iii-c,iv-d,v-e
B. i-d,ii-e,iii-a,iv-c,v-b
C. i-c,ii-d, iii-e,iv-a,v-a
D. i-e,ii-d,iii-c,iv-b,v-a

## Answer: B

## D Watch Video Solution

94. An acute angled triangle has ............ acute angles.
A. 1
B. 2
C. 3
D. 0

## Answer: C

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95. Which type of triangle is formed by $\mathrm{BC}=7.2 \mathrm{~cm}$,
$\mathrm{AC}=6 \mathrm{~cm}$ and $\angle C=120^{\circ}$ ?
A. An acute angled triangle
B. An obtuse angled triangle
C. A right angled triangle
D. An isosceles triangle

## Answer: B

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96. Which triangle is formed by $A B=3 \mathrm{~cm}, B C=4 \mathrm{~cm}$

and $\mathrm{AC}=8 \mathrm{~cm}$ ?

A. A scalene triangle
B. An isosceles triangle
C. An equilateral triangle
D. No triangle is formed
97. P: An isosceles triangle is right angled
$Q: \angle A=\angle B=45^{\circ}$ and $\angle C=90^{\circ}$
Which of the following statements is true?
A. $P$ is true and $Q$ is not the correct explanation of $P$.

B. $P$ is false

C. $Q$ is true $P$ is the correct explanation of $P$
D. $P$ is true and $Q$ is the correct explanation of $P$.

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98. Which of the following statements is not true
A. A triangle can have three $60^{\circ}$ angles.
B. A triangle can have one right angles.
C. A triangle can have two right angles.
D. A triangle can have all three angles equal.

Answer: C
99. Which of the following angles are not the angles of a triangle?
A. $45^{\circ}, 65^{\circ}, 70^{\circ}$
B. $45^{\circ}, 55^{\circ}, 65^{\circ}$
C. $60^{\circ}, 60^{\circ}, 60^{\circ}$
D. $30^{\circ}, 60^{\circ}, 90^{\circ}$

Answer: B

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# 100. Sum of the interior angles in a triangle is equal 

to
A. Two right angles
B. Two straight angles
C. Right angles
D. $0^{\circ}$

Answer: A
101. Sum of two acute angles of a right angled triangle is
A. $90^{\circ}$
B. $60^{\circ}$
C. $30^{\circ}$
D. $180^{\circ}$

## Answer: A

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102. In $\triangle A B C$, which of the following is false?
A. $A B-B C<A C$
B. $B C+C A>A B$
C. $A B-B C=A C$
D. None

Answer: C

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103. triangle can have ___ obtuse angles
A. 0
B. 1
C. 2
D. 3

## Answer: B

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104. The relation between $x$ and $y$ the given figure expressed with 'y' as subject is

A. $y=1 / 2(180-x)$
B. $y=1 / 2(180+x)$
C. $2 y=180-x$
D. $x=180+2 y$

Answer: A
105. Following lengths of the sides of a triangle are given. In which case it is not possible to construct triangle (in cms)
A. $3,4,5$
B. 6,6,6
C. $4,4,8$
D. 3,5,7

Answer: C
106. The sum of interior angles in a pentagon is
A. $270^{\circ}$
B. $360^{\circ}$
C. $540^{\circ}$
D. $480^{\circ}$

## Answer: C

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107. The opposite interior angles are in the ratio 1:4, then $\angle A, \angle B=$ ?

A. $26^{\circ}, 104^{\circ}$
B. $104^{\circ}, 26^{\circ}$
C. $75^{\circ}, 105^{\circ}$
D. $50^{\circ}, 80^{\circ}$

Answer: A
108.
In
the
adjacent
figure
$\angle A+\angle B+\angle C+\angle D+\angle E=\ldots \ldots \ldots$.

A. $90^{\circ}$
B. $360^{\circ}$
C. $270^{\circ}$
D. $540^{\circ}$

## Answer: D

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109. Find the value of $x$ and $y$

A. $135^{\circ}, 80^{\circ}$
B. $80^{\circ}, 135^{\circ}$
C. $70^{\circ}, 125^{\circ}$
D. $125^{\circ}, 70^{\circ}$

## Answer: A

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110. A simple closed figure formed by three line segments is called
111. A triangle with three equal sides is an trinagle.

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112. A triangle with three equal sides is an trinagle.
113. In $\triangle A B C, A B=A C$, then $\lfloor B=$


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114. The angle of an equilateral triangle is

## D Watch Video Solution

115. Number of obtuse angles possible in a triangle

## - Watch Video Solution

116. How many right angles exist in a triangle ?

## - Watch Video Solution

117. One of the acute angle in right angle triangle is
$30^{\circ}$ then the other angle is
118. The opposite side of right angle is

## - Watch Video Solution

119. Based on their angle and sides which type of triangles shown in the figure ............. and


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120. The angle vertex ' $x$ ' is


## - Watch Video Solution

121. In a triangle two angles are $33^{\circ}$ and $47^{\circ}$ then third angle is
122. The sum of three angles of a triangle is

D Watch Video Solution
123. The value of $x$ in the adjacent figure


- Watch Video Solution

124. The value of $x=\ldots . . . . . .$. , and $y=. . . . . . . . . . .$. in the adjacent figure.

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125. The sum of lengths of any two sides of a triangle is ............ the third side of the triangle.

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126. In any triangle the opposite side to the smaller angle is ............ the other two sides.
127. The values of $x$ and $y$ in the given figure are


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128. What is a triangle?

## - Watch Video Solution


129.

Find
the value of $x$ in the given figure.

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130. In $\triangle P Q R$, if $\angle P=65^{\circ}$ and $\angle Q=50^{\circ}$ then find $\angle R$.

## - Watch Video Solution

131. What are the measurements of angles of an equilateral triangle?

## - Watch Video Solution

132. How many right angles exist in a triangle ?
133. We can form a triangle with each angle less than $60^{\circ}$.

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134. State true or false for each of the following statements: A triangle can have two acute angles.

## - Watch Video Solution

135. The sum of three angles of a triangle is
136. Two angles of a triangle are $30^{\circ}$ and $80^{\circ}$. Find the third angle.

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137. The three angles of a triangle are in the ratio 1:2:1. Find all the angles of the triangle. Classify the triangle in two different ways.
138. The angles of a triangle are in the ratio $1: 2: 3$.

Find the angles.

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139. The length of two sides of a triangle are 12 cm
and 15 cm . Between what two measure should the length of the third side fall?

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140. If the angles of a triangle are in the ratio $1: 4: 5$, find the angles.

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141. Find the value of the unknown $x$ in the following diagrams:

By angle sum property of a triangle.


## ( Watch Video Solution

142. Find the value of the unknown $x$ in the following diagrams:

By angle sum property.

143. Find the value of ' $x$ ' from adjacent fig.

By angle sum property


D Watch Video Solution
144. Find the value of ' $x$ ' from adjacent fig.

By angle sum property of a triangle


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145. Find the values of the unknowns ' $x$ ' and ' $y$ ' in the following diagrams.

146. Find the measure of angles $x$ and $y$.


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147. One of the exterior angle of a triangle is $105^{\circ}$ and the interior opposite angles are in the ratio 2:5.

Find the angles of the triangle.

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148. Find the value of ' $x$ ' from the given adjacent figures and ' $y$ '.

149. Is it possible to have a triangle with the following sides?
$2 \mathrm{~cm}, 3 \mathrm{~cm}, 5 \mathrm{~cm}$

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150. Is it possible to have a triangle with the following sides ?
$3 \mathrm{~cm}, 6 \mathrm{~cm}, 7 \mathrm{~cm}$
151. Is it possible to have a triangle with the following sides?
$6 \mathrm{~cm}, 3 \mathrm{~cm}, 2 \mathrm{~cm}$

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152. One of the exterior angles of a triangle is $125^{\circ}$ and the interior opposite angles are in the Ratio 2:3.

Find the angles of the triangle.

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