Classedge School

Question Paper

Class _____ Marks : _____

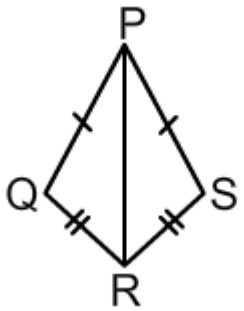
Subject _____ Time : _____

Name: _____

Roll No. : _____ Division : _____

**Question 1**

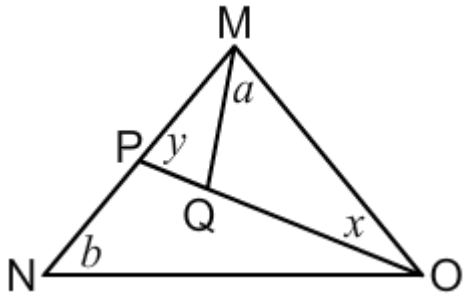
In the figure given alongside, $\Delta PQR \cong \Delta PSR$.
If $\angle P = 72°$ and $\angle R = 98°$, what is the value of $\angle PQR$?




A. 87°
B. 90°
C. 95°
D. 99°

**Question 2**

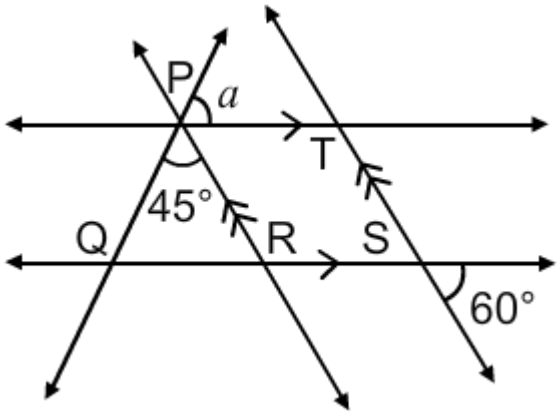
In $\Delta MNO$, the bisector of $\angle NOM$ meets MN at P.
Which of the following statements is true?




A.
B.
C.
D.

**Question 3**

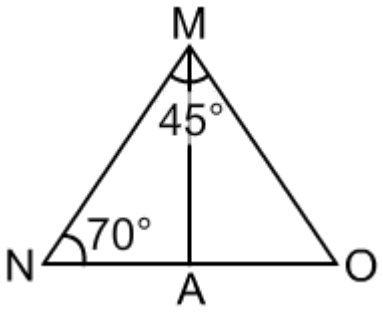
Find the value of $a$ in the figure given alongside.




- A. 75°
- B. 77°
- C. 78°
- D. 80°

**Question 4**

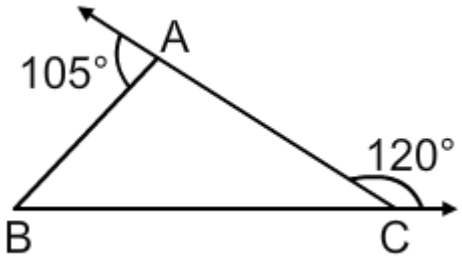
In $\Delta MNO$, if $\angle M = 45°$ and $\angle N = 70°$ which is the largest side of the triangle?




- A. MN
- B. MO
- C. NO
- D. MA

**Question 5**

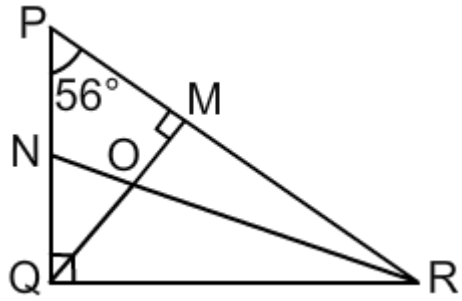
What is the value of ∠ABC?




- A. 45°
- B. 47°
- C. 58°
- D. 65°

**Question 6**

In the figure, RN is the bisector of ∠R.
RN and QM intersect at O. ∠M = ∠Q = 90°.
What is the value of ∠ROM?




- A. 67°
- B. 73°
- C. 83°
- D. 98°

**Question 7**

Which of the following statements are true?
i. If two sides of a triangle are equal, the angles opposite them are equal.

ii. A scalene triangle is a triangle in which all sides are equal.

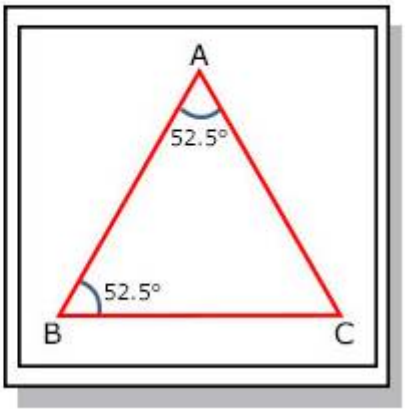
iii. An obtuse-angled triangle is a triangle in which two angles are obtuse.

iv. If two sides of a triangle are unequal, the angle opposite the longer side is larger.

- A. i and iv
- B. i, iii and iv
- C. iii and iv
- D. ii and iii

## Question 8

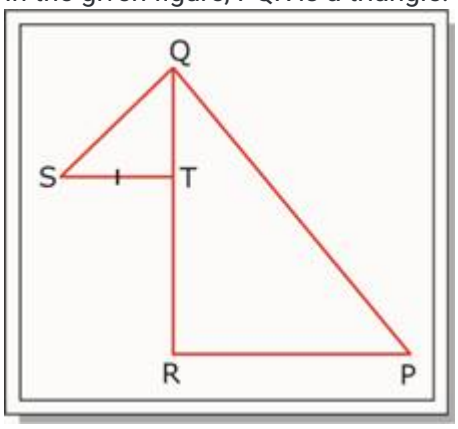
In $\Delta ABC$, if $\angle A = \angle B = 52.5°$, then the longest side is... .




- A. AB
- B. BC
- C. CA
- D. None of the above

## Question 9

In the given figure, PQR is a triangle. T is a point on QR, and if S is a point, such that RT = ST, then PQ + PR _____ .




- A. PQ + PR > QS
- B. PQ + PR = QS
- C. PQ + PR < QS
- D.

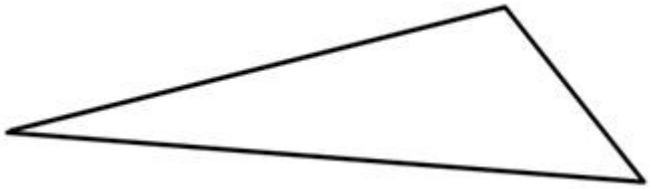
## Question 10

Which of the following combinations does not represent the sides of a triangle?

- A. 5 cm, 6 cm, 8 cm
- B. 4.5 cm, 7.2 cm, 9.3 cm
- C. 6.8 cm, 12 cm, 4.6 cm
- D. 5 cm, 12 cm, 13 cm

## Question 11

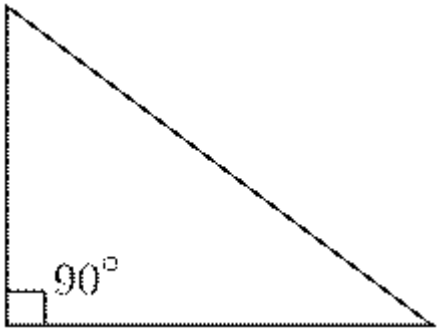
In a triangle, at the most one angle is… .



- A. acute
- B. obtuse
- C. linear
- D. None of the above

## Question 12

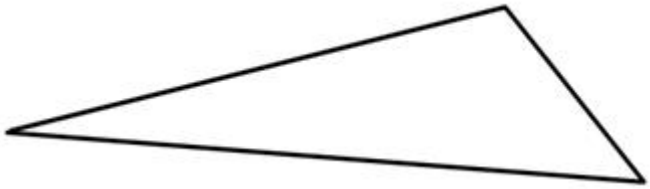
In a right angled triangle, _____ is the longest side.




- A. perpendicular
- B. base
- C. hypotenuse
- D. None of the above

## Question 13

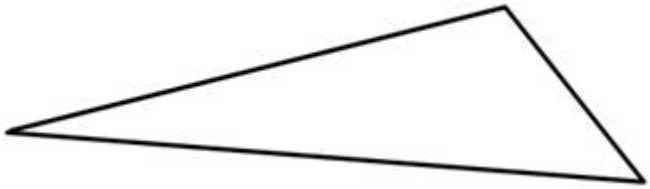
In a triangle, the sum of its two sides is _____ the third side.



- A. equal to
- B. lesser than
- C. greater than
- D. None of the above

### Question 14

In a triangle, the angle opposite to the longer side is… .



- A. greater
- B. 90°
- C. smaller
- D. None of the above

### Question 15

In $\Delta PQR$, if $\angle R > \angle Q$, then… .

- A. QR > PR
- B. PQ > PR
- C. PQ < PR
- D. QR < PR

### Question 16

If two angles of a triangle are unequal, then the side opposite to the smaller angle is… .

- A. greater
- B. smaller
- C. 5 cm
- D. 10 cm

### Question 17

Which of the following combinations represent the sides of a right angled triangle?

- A. 5 cm, 6 cm, 9 cm
- B. 6 cm, 8 cm, 12 cm
- C. 8 cm, 15 cm, 17 cm
- D. 4 cm, 5 cm, 6 cm

### Question 18

In a right angled triangle, if acute angle is double the other angle, then hypotenuse is… .

- A. equal to the smallest side
- B. three times the smallest side
- C. twice the smallest side
- D. smaller than any of the two sides

### Question 19

- A. AD > BC
- B. AD = BC
- C. AD < BC
- D. None of the above

### Question 20

Which of the following options are true for a triangle ABC?

- A. (AB + BC) > AC
- B. (AC - BC) > 2AB
- C. (AC - BC) < 2AB
- D. (a) and (c) both

### Question 21

Which of the following is true for the triangle ABC?

- A. AB > AC > BC
- B. AC > AB > BC
- C. AC > BC > AB

### Question 22

Identify the shortest side of the triangle ABC.

- A. AB
- B. AC
- C. BC

### Question 23

PQR is a right angled triangle, right angled at Q. If ĐP measures 55°, then find the shortest side of the triangle.

- A. PQ
- B. PR
- C. QR

### Question 24

PQR is a right angled triangle, right angled at Q. If ∠P measures 55°, then find the longest side of the triangle.

- A. PQ
- B. PR
- C. QR

### Question 25

State whether the statement is true or false.
The sum of any two angles of a triangle is always greater than the third angle.

- A. True
- B. False

### Question 26

The perimeter of a triangle is _____ the sum of its medians.

- A. equal to
- B. less than
- C. more than
- D. half of

### Question 27

The difference between any two sides of a triangle is _____ the third side.

- A. more than
- B. less than
- C. equal to
- D. half of

### Question 28

In a triangle, the side opposite to larger angle is… .

- A. longer
- B. shorter
- C. equal
- D. None of the above

### Question 29

- A.
- B.
- C.
- D.

### Question 30

Identify the longest side of the triangle ABC.

- A. AB
- B. AC
- C. BC

## Question 31

State whether the statement is true or false.
It is possible to construct a triangle with sides 5 cm, 7 cm and 12 cm.

- A. True
- B. False

## Question 32

In a triangle, the angle opposite to the longest side is… .

- A. > 60°
- B. of 50°
- C. >90°
- D. None of the above

## Question 33

- A. an acute angle
- B. an obtuse angle
- C. a linear angle
- D. a right angle

## Question 34

The sum of three altitudes of a triangle is _____ the sum of its three sides.

- A. lesser than
- B. greater than
- C. equal to
- D. None of the above

## Question 35

Identify the longest side of the triangle ABC.

- A. AB
- B. AC
- C. BC