Classedge School

Question Paper

Class _____ Marks : _____

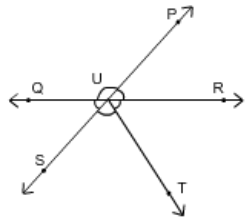
Subject _____ Time : _____

Name: _____

Roll No. : _____ Division : _____

Question 1

Refer to the figure shown. Which of the below options is a linear pair of angles?



- [ ] A.
- [ ] B.
- [ ] C.
- [ ] D.

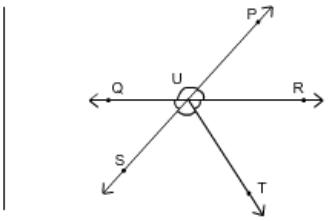
Question 2

Which of the following is NOT a property of adjacent angles?

- [ ] A. Adjacent angles have a common vertex.
- [ ] B. Adjacent angles have a common arm.
- [ ] C. Adjacent angles have common interior points.
- [ ] D. Adjacent angles have uncommon arms.

Question 3

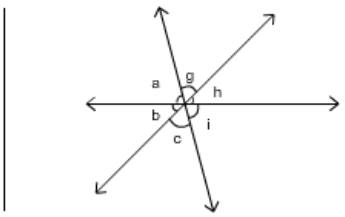
Refer to the figure shown. If the measure of $\angle PUR = 38^0$, what is the measure of $\angle PUQ$?



- [ ] A.
- [ ] B.
- [ ] C.
- [ ] D.

Question 4

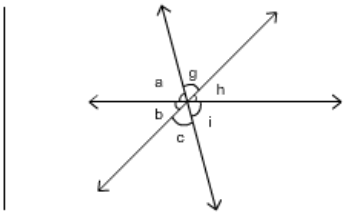
Which angle is vertically opposite to ∠h?



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

Question 5

Name the angle adjacent to ∠a.



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

Question 6

Which of the following statements is true?

- A. Two acute angles can never be adjacent.
- B. Two acute angles can never form a linear pair.
- C. Two obtuse angles can form a linear pair.
- D. An acute angle and an obtuse angle can never be adjacent.

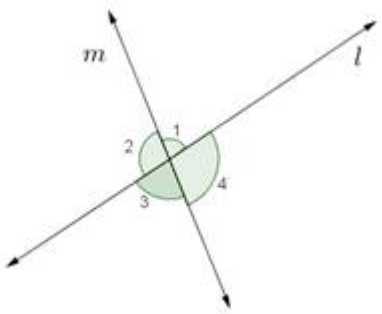
Question 7

State whether a given statement is true or false.
The angles that form a linear pair are always supplementary.

- A. True
- B. False

Question 8

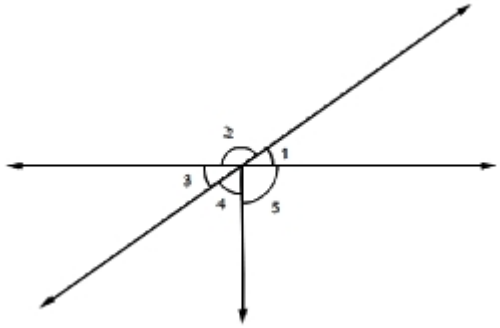
The given figure shows two intersecting lines*l* and*m* . Which of the following pairs of angles form a linear pair?



- A. ∠1, ∠2
- B. ∠1, ∠3
- C. ∠1, ∠4
- D. ∠2, ∠3

Question 9

Study the given figure and identify the pair of angles that are vertically opposite to each other.



- A. ∠1, ∠3
- B. ∠2, ∠5
- C. ∠1, ∠4
- D. ∠2, ∠4

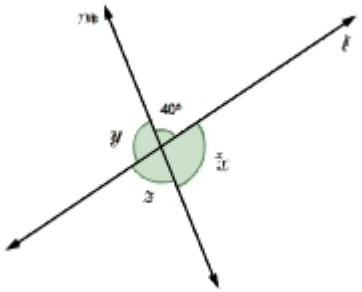
Question 10

State whether a given statement is true or false.
In a linear pair if one angle is acute then the other angle is obtuse.

- A. True
- B. False

Question 11

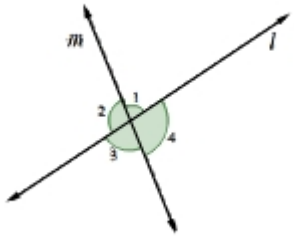
The given figure shows two intersecting lines l and m . Find the value of x .



- A. 40°
- B. 140°
- C. 130°
- D. 110°

Question 12

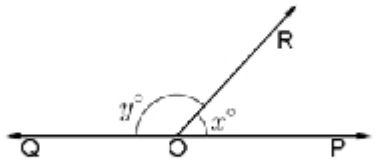
The given figure shows two intersecting lines l and m . Which of the following pairs of angles are adjacent to each other?



- A. $\angle 1, \angle 2$
- B. $\angle 1, \angle 3$
- C. $\angle 1, \angle 4$
- D. $\angle 3, \angle 4$

Question 13

In the given figure PQ is a straight line. If $2y = 3x$, then find the value of x .



- A. 120
- B. 108
- C. 72
- D. 84

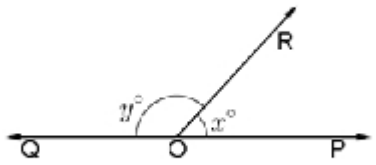
Question 14

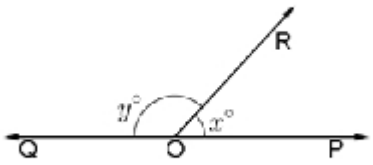
State whether a given statement is true or false.
When two lines intersect four pairs of vertically opposite angles are formed.

- A. True
- B. False

Question 15

In the given figure OP and OQ are two opposite rays. If the difference between$x$ and$y$ is 40, then find the value of$x$.





- A. 70
- B. 110

Question 16

State whether a given statement is true or false.
Vertically opposite angles are always equal.

- A. True
- B. False

Question 17

The given figure shows two intersecting lines l and m . If $4x = 5z$, then find the value of y.

- A. 80°
- B. 100°
- C. 60°
- D. 120°

Question 18

The measures of two adjacent angles ĐAOP and ĐBOP are $4x$ ° are $(2x + 30)$°. Find the value of x for which AB represents a straight line.

- A. 100
- B. 30
- C. 40
- D. 25

Question 19

The given figure shows two intersecting lines l and m . If $x - w = 108°$, then find the value of y.

- A. 124°
- B. 136°
- C. 108°
- D. 144°

Question 20

The given figure shows two intersecting lines l and m . Which of the following pairs of angles are vertically opposite angles?

- A. $\angle 1, \angle 2$
- B. $\angle 1, \angle 3$

Question 21

The given figure shows two intersecting lines l and m . Find the value of $x + z$.

- A. 80°
- B. 280°
- C. 260°
- D. 180°

Question 22

State whether a given statement is true or false.
Two supplementary angles always form a linear pair.

- A. True
- B. False

Question 23

Which of the following statements is NOT true?

- A. Two adjacent right angles form a linear pair.
- B. Adjacent angles can be complementary.
- C. Vertically opposite angles are equal.
- D. Two obtuse angles can form a linear pair.

Question 24

Study the given figure and identify the pairs of angles that form a linear pair.

- A. $\angle 1, \angle 5$
- B. $\angle 1, \angle 2$

Question 25

The given figure shows two intersecting lines l and m . Find the value of z .

- A. 40°
- B. 140°
- C. 30°
- D. 80°