Classedge School

Question Paper

Class _____ Marks : _____

Subject _____ Time : _____

Name: _____

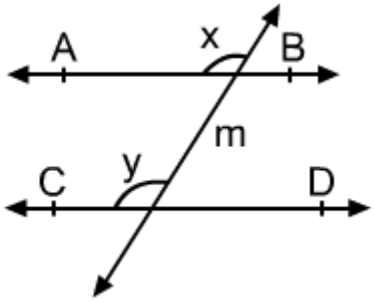
Roll No. : _____ Division : _____

Question 1

AB || CD and *m* is a transversal.

Then $\angle x = \angle y$

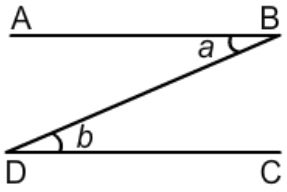
because they make a pair of:



- A. Alternate interior angles
- B. Corresponding angles
- C. Interior angles on the same side of the transversal
- D. Alternate exterior angles

Question 2

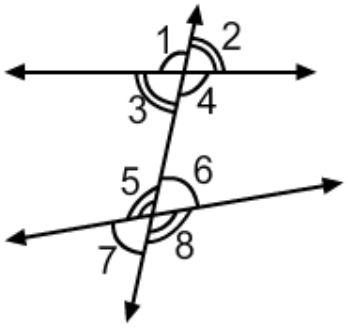
Rachna is designing a model of a park. The park is in the shape of a rectangle. She decides to draw the two longer sides and a diagonal first. She wants to make sure that the sides she has drawn are parallel. If $\angle a = 25°$, what should be the value of $\angle b$ so that the lines AB and CD are parallel?



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

Question 3

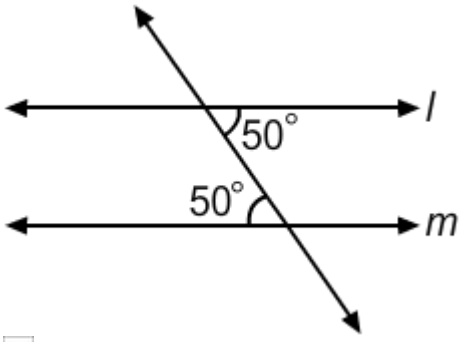
In this figure, the pair $\angle 4$ and $\angle 6$ and the pair $\angle 3$ and $\angle 5$ are both, pairs of:



- A. Alternate interior angles
- B. Corresponding angles
- C. Interior angles on the same side of the transversal
- D. Alternate exterior angles

Question 4

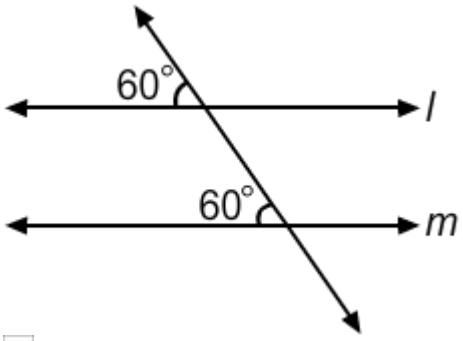
Ankit observes the following figure and concludes that the lines *l* and *m* are parallel. On the basis of which of the following was he able to draw this conclusion?



- A. A pair of alternate angles is equal
- B. A pair of corresponding angles is equal
- C. A pair of vertically opposite angles is equal
- D. A pair of interior angles on the same side of the transversal is supplementary

Question 5

Ritu observes the following figure. Just by looking at the figure she concludes that the lines l and m in the figure are parallel. On the basis of which of the following was she able to draw this conclusion?



A. A pair of alternate angles is equal

B. A pair of corresponding angles is equal

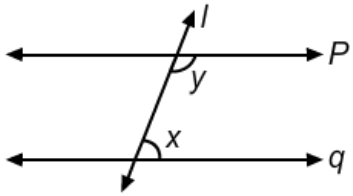
C. A pair of vertically opposite angles is equal

D. A pair of interior angles on the same side of the transversal is supplementary

Question 6

While making the model of a railway station, Rajesh draws two lines *p* and *q* to show the railway tracks, as shown in the figure.

He finds that $\angle x = 55^\circ$. What should be the value of $\angle y$ to ensure that the lines p and q are parallel?



A.

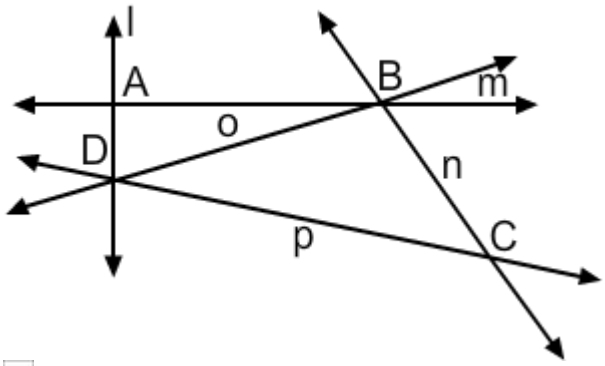
B.

C.

D.

Question 7

Lines *l*, *m*, *n*, *o* and *p* meet each other at various points in this figure. The total number of transversals for the lines AB and CD in the figure are:



A. Two

B. Three

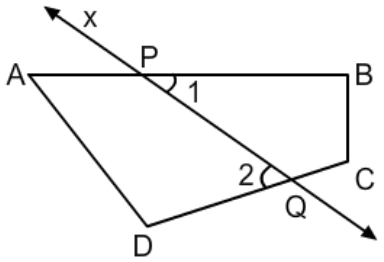
C. Five

D. One

Question 8

In the figure, ABCD is a quadrilateral with none of its interior angles equal. A line *x* intersects the quadrilateral ABCD at points P and Q.

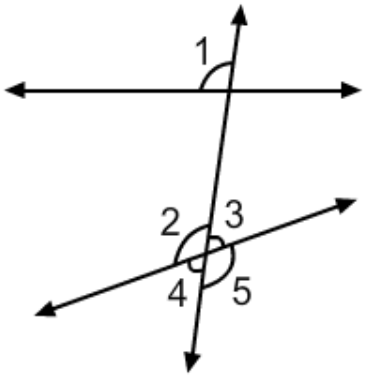
Here, $\angle 1$ and $\angle 2$ are:



- A. Vertically opposite angles
- B. Equal
- C. A pair of alternate interior angles.
- D. A pair of corresponding angles

Question 9

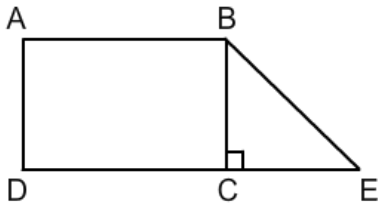
In the figure shown, a pair of alternate exterior angles is formed by $\angle 1$ and _____.



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

Question 10

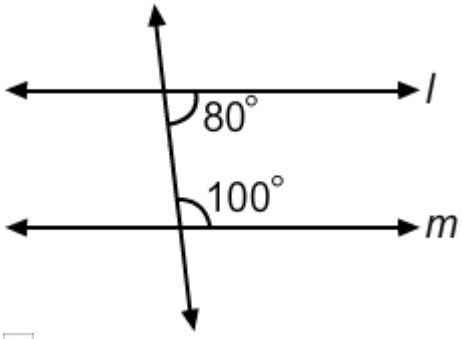
In this figure ABCD is a rectangle and ΔBCE is a triangle right-angled at C. For line segments AB and DE:



- A. BC is the only transversal
- B. AD is the only transversal
- C. AD, BC and BE are the three transversals
- D. There are no transversals

Question 11

Mahesh observes the following figure and concludes that the lines *l* and *m* in the figure are parallel. On the basis of which of the following, was he able to draw this conclusion?



- A. A pair of alternate angles is equal
- B. A pair of corresponding angles is equal
- C. A pair of vertically opposite angles is equal
- D. A pair of interior angles on the same side of the transversal is supplementary

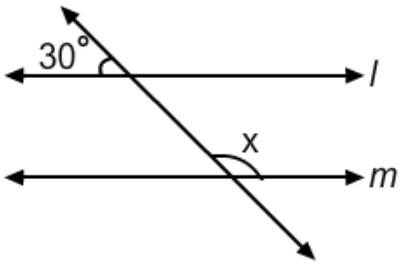
Question 12

Select the incorrect statement from the following:

- A. There is one transversal in the alphabet 'Z'
- B. There are two transversals in the alphabet 'F'
- C.
- D. Vertically opposite angles are equal in measure

Question 13

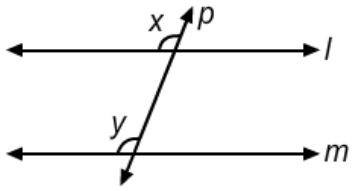
Line *l* and *m* are parallel as shown below. What is the value of $\angle x$?



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

Question 14

Teacher draws lines *l* and *m* on a sheet of paper. She then asks Savita to check if the lines are parallel. Savita draws a transversal *p* as shown in the figure and finds that $\angle x = 120^{\circ}$.

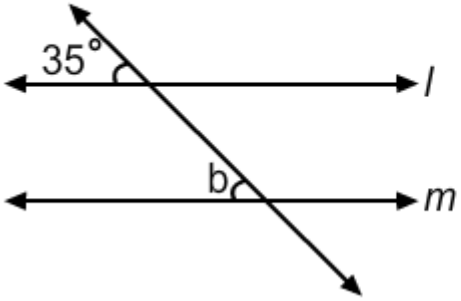


If the lines are parallel, what should be the value of $\angle y$?

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

Question 15

If the lines *l* and *m* are parallel, what is the value of $\angle b$?



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

Question 16

_____ angles are on the same side of the transversal.

- A. Exterior
- B. Interior
- C. Corresponding
- D. Alternate

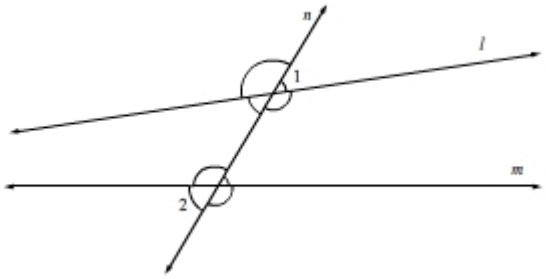
Question 17

State whether the statement is true or false.
Corresponding angles lie on the same side of the transversal.

- A. True
- B. False

Question 18

Which of the following gives the nature of the angles ∠1 and ∠2 in the given figure?



- A. Corresponding angles
- B. Alternate interior angles
- C. Alternate exterior angles
- D. Interior angles on the same side of the transversal

Question 19

State whether the statement is true or false.
When a transversal intersects two parallel lines the interior alternate angles formed are equal.

- A. True
- B. False

Question 20

State whether the statement is true or false.
Alternate angles lie on the same side of the transversal.

- A. True
- B. False

Question 21

Which of the following gives the nature of the angles ∠1 and ∠2 in the given figure?

- A. Corresponding angles
- B. Alternate interior angles
- C. Alternate exterior angles
- D. Interior angles on the same side of the transversal

Question 22

Corresponding angles lie on the same side of the transversal.

- A. True
- B. False

Question 23

Which of the following gives the nature of the angles ∠1 and ∠2 in the given figure?

- A. Corresponding angles
- B. Alternate interior angles
- C. Alternate exterior angles
- D. Interior angles on the same side of the transversal

Question 24

Which of the following gives the nature of the angles ∠1 and ∠2 in the given figure?

- A. Corresponding angles
- B. Alternate interior angles
- C. Alternate exterior angles
- D. Interior angles on the same side of the transversal

Question 25

Which of the following gives the nature of the angles ∠1 and ∠2 in the given figure?

- A. Corresponding angles
- B. Alternate interior angles
- C. Alternate exterior angles
- D. Interior angles on the same side of the transversal

Question 26

Which of the following gives the nature of the angles ∠1 and ∠2 in the given figure?

- A. Corresponding angles
- B. Alternate interior angles
- C. Alternate exterior angles
- D. Interior angles on the same side of the transversal

Question 27

State whether the statement is true or false.
A transversal intersects two or more lines at distinct points.

- A. True
- B. False