

Geometry - Test 1

Name *

Kate Fogleman

Q1 *

1 point

The three steps from solids to points are:

- A. Solids - surfaces - lines – points
- B. Solids - lines - surfaces - points
- C. Lines - points - surfaces – solids
- D. Lines - surfaces - points – solids

A

B

C

D

Q2 *

1 point

P lies in the interior of $\angle BAC$. If $\angle BAC = 70^\circ$ and $\angle BAP = 42^\circ$, then the value of $\angle PAC$ is

- A. 20° B. 30° C. 28° D. 18°

- A
 B
 C
 D

Q3 *

1 point

Which of the following is a true statement?

- A. A line has a definite length.
B. A ray has two end points
C. A point always determines a unique line.
D. Three lines are concurrent when they have only one point in common.

- A
 B
 C
 D

Q4 *

1 point

A point C is the mid - point of the line segment AB, if

- I. $AC = AB$
- II. C is the interior point of AB.
- III. $AC = CB$ and C is the interior point AB.

The given statement is true only when

- A. I holds
- B. II holds
- C. III holds
- D. none holds

- A
- B
- C
- D

Q5 *

1 point

Number of lines passing through a given point

- A. 2
- B. 3
- C. 10
- D. Uncountable

- A
- B
- C
- D

Q6 *

1 point

Sum of the exterior angles of Hexagon is

- A. 180° B. 540° C. 360° D. 450°

- A
- B
- C
- D

Q7 *

1 point

An exterior angle of a triangle is 117° and one its interior angles is 37° . What is the sum of the other two angles?

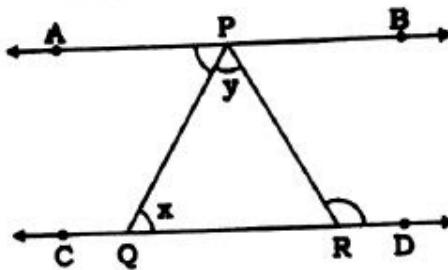
- A. 80° B. 154° C. 143° D. 145°

- A
- B
- C
- D

Q8 *

1 point

In the given figure, if $AB \parallel CD$, $\angle APQ = 60^\circ$ and $\angle PRD = 117^\circ$, then the value of x and y are respectively

A. $60^\circ, 57^\circ$ B. $60^\circ, 77^\circ$ C. $70^\circ, 77^\circ$ D. $70^\circ, 87^\circ$ A B C D

Q9 *

1 point

The sum and difference of two angles of a triangle are 128° and 22° respectively. Then the angles of the triangle are

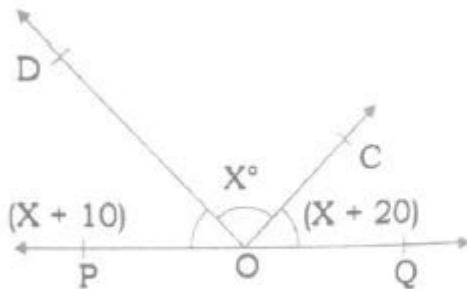
A. $75^\circ, 53^\circ, 52^\circ$ B. $34^\circ, 50^\circ, 96^\circ$ C. $45^\circ, 50^\circ, 85^\circ$ D. $45^\circ, 55^\circ, 80^\circ$ A B C D">

https://docs.google.com/forms/d/1I7nkv9dSlaaGXQ9CGXsKKd48DXwMmxMnJMuOmJgxps/edit#response=ACYDBNjnT_NbmCJlyPK8oH17eolavA... 5/32

Q10 *

1 point

In the given figure, OP and OQ are opposite rays, then $x =$



A. 50°

B. 60°

C. 45°

D. 30°

 A B C D

Q11 *

1 point

In given figure $AB \parallel CD$ and $\angle F = 30^\circ$. Then the value of $\angle ECD$ is

A. 120°

B. 130°

C. 140°

D. 150°

 A B C D

Q12 *

1 point

Interior angle of a regular polygon of n sides is equal to the exterior angle of a regular polygon of k sides, then number of such pairs (n, k) is

A. 2

B. 3

C. 4

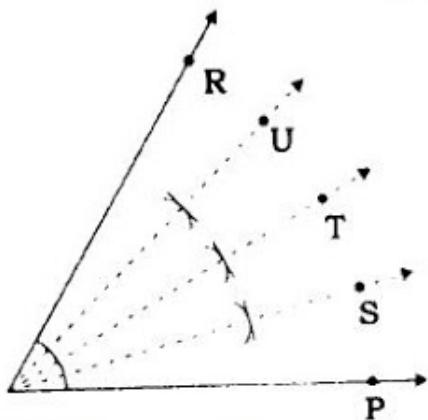
D. 5

 A B C D

Q13 *

1 point

In the following figure, $\angle PQR = 60^\circ$, $\angle PQR$ is bisected and the resultant angles are bisected again, then $\angle TQS + \angle SQU + \angle PQS =$



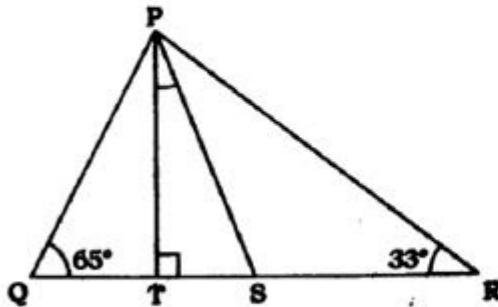
- A. 20° B. 15° C. 60° D. 18°

- A
- B
- C
- D

Q14 *

1 point

In the given figure, $PT \perp QR$ and PS bisects $\angle QPR$. If $\angle Q = 65^\circ$ and $\angle R = 33^\circ$, then
 $\angle TPS =$

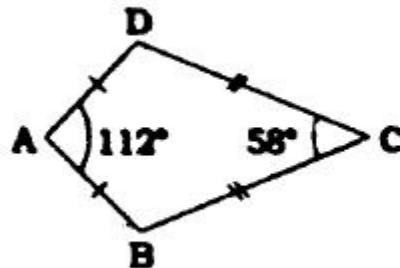
A. 30° B. 64° C. 32° D. 16°

- A
- B
- C
- D

Q15 *

1 point

In the given figure, the value of $\angle ADC$ is



- A. 95° B. 80° C. 70° D. 65°

- A
 B
 C
 D

Q16 *

1 point

The top of a broken tree touches the ground at a distance of 12 m from its base. If the tree is broken at a height of 5 m from the ground then the actual height of the tree is

- A. 25 m B. 13 m C. 18 m D. 17 m

- A
 B
 C
 D

Q17 *

1 point

The triangle ABC formed by $AB = 5 \text{ cm}$, $BC = 8 \text{ cm}$, $AC = 4 \text{ cm}$ is

- A. an isosceles triangle only
- B. a scalene triangle only
- C. an isosceles right triangle
- D. scalene as well as a right triangle

 A B C D

Q18 *

1 point

Two trees 7 m and 4 m high stand upright on a ground. If their bases (roots) are 4 m apart, then the distance between their tops is

- A. 3 m
- B. 5 m
- C. 4 m
- D. 11 m

 A B C D">

Q19 *

1 point

The sides of a triangle have lengths (in cm) 10, 6.5 and a, where a is a whole number. The minimum value that a can take is

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

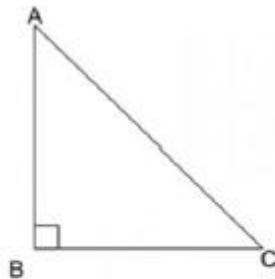
 A B C D

Q20 *

1 point

Triangle DEF of Fig. 6.6 is a right triangle with $\angle B = 90^\circ$.

What type of angles are $\angle A$ and $\angle C$?



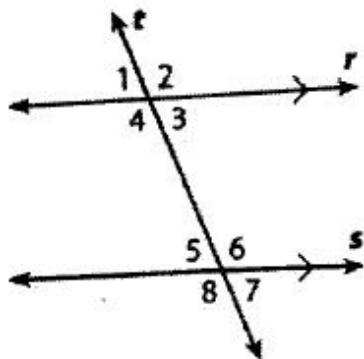
- A. They are equal angles
- B. They form a pair of adjacent angles
- C. They are complementary angles
- D. They are supplementary angles

 A B C D

Q21 *

1 point

In Figure, a pair of corresponding angles is



- A. $\angle 1, \angle 2$ B. $\angle 3, \angle 6$ C. $\angle 3, \angle 5$ D. $\angle 3, \angle 7$

- A
 B
 C
 D

Q22 *

1 point

If two lines are intersected by a transversal, then the number of pairs of interior angles on the same side of the transversal is

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

- A
 B
 C
 D

Q23 *

1 point

Angles between South and West and South and East are

- A. vertically opposite angles
- B. complementary angles
- C. making a linear pair
- D. adjacent but not supplementary

- A
- B
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Q24 *

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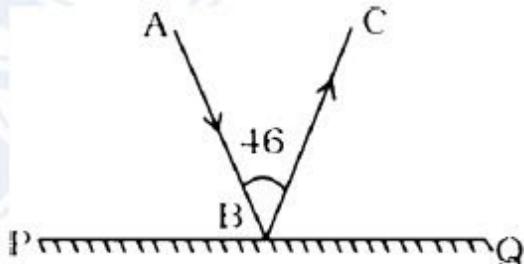
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- D

Q25 *

1 point

In Figure, PQ is a mirror, AB is the incident ray and BC is the reflected ray.

If $\angle ABC = 46^\circ$, then $\angle ABP$ is equal to



- A. 44° B. 67° C. 13° D. 62°

 A B C D

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Google Forms

Geometry - Test 1

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Abhishek Aswal

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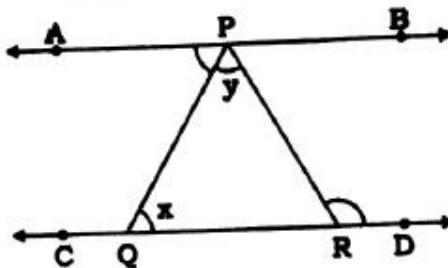
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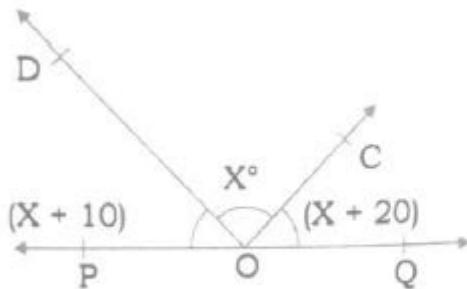
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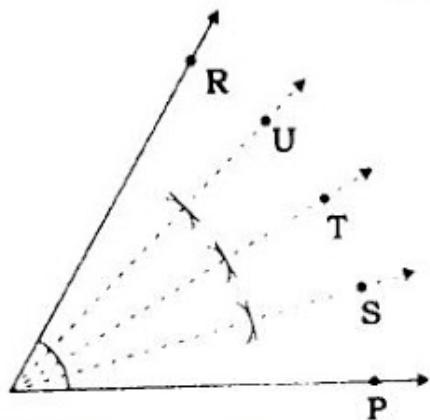
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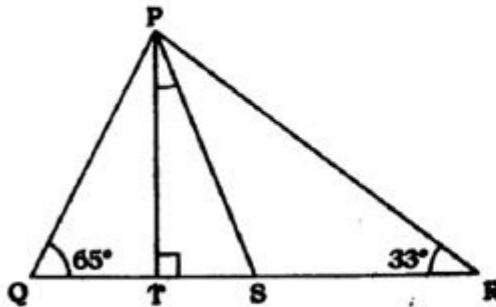
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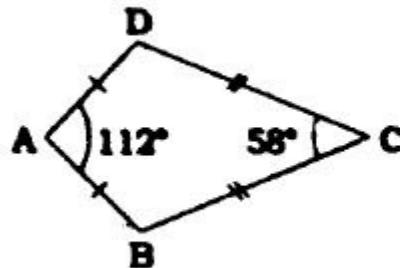
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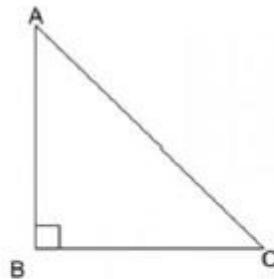
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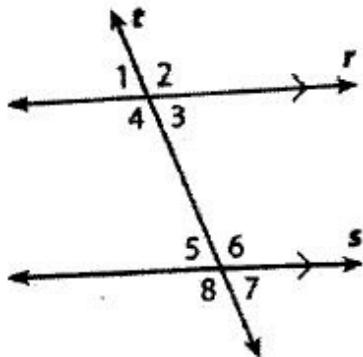
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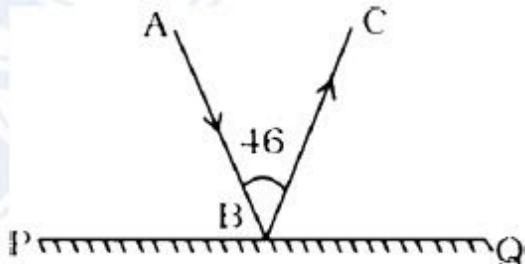
https://docs.google.com/forms/d/1I7nkv9dSlaaGXQ9CGXsKKd48DXwMmxMnJMuOmJgxpse/edit#response=ACYDBNjnT_NbmCJlyPK8oH17eolav... ... 31/32

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