

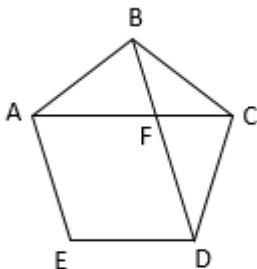
IITJEE Foundation Practice paper

BASIC GEOMETRICAL IDEAS

class-6-Mathematics Number of Questions: 51

For Answers and Solutions, Go to www.micromerits.com

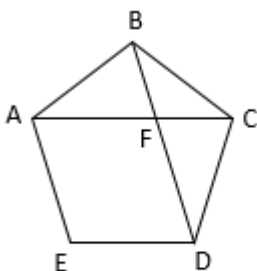
1



Name the line segments in the figure that intersect at E

- $\overline{AF}, \overline{BD}$
 $\overline{EA}, \overline{AF}$
 $\overline{AE}, \overline{ED}$
 $\overline{AE}, \overline{ED}$
 $\overline{BE}, \overline{EC}$

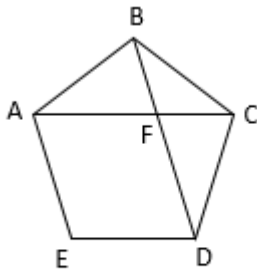
2



Name the line segments that intersect at D

- $\overline{BF}, \overline{FC},$ and $\overline{FE}, \overline{BA}$
 $\overline{BE}, \overline{FE},$ and $\overline{BC}, \overline{BF}$
 $\overline{DE}, \overline{EC},$ and $\overline{FA}, \overline{CA}$
 $\overline{ED}, \overline{DC},$ and $\overline{BD}, \overline{DC}$
 $\overline{ED}, \overline{DC},$ and $\overline{BD}, \overline{DC}$

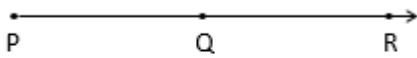
3



Name the points of intersection of segments AC and BD

- F F
 B
 A
 E

4



Which of the following is not found?

- Point
 Line Line
 Ray
 None of these

5

The surface of which of these is not a plane?

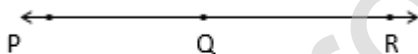
- A book
 A table
 A football
 A glass

6

Which of the following is the appropriate definition of angle?

- Two rays which have the same end point
 Two lines which have the same end point
 Two line segments which have the same end point
 Two line segments which have are parallel

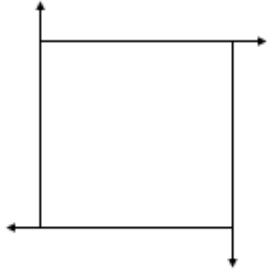
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Which of the following is not found?

- Line
 Line segment Line segment
 Point
 None of these

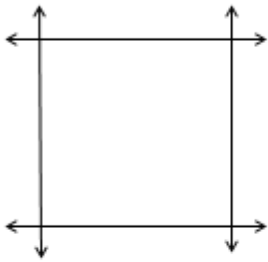
8



What is this figure **completely** made of?

- Lines Rays Rays Line Segments All of these

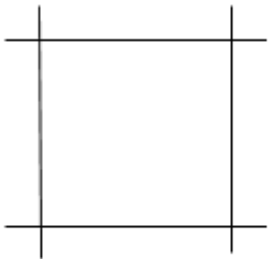
9



What is this figure **completely** made of?

- Rays Line segments Lines Lines None of these

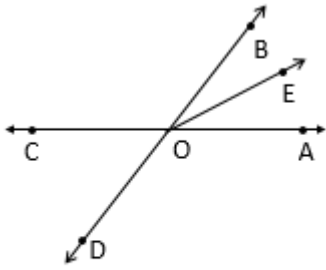
10



What is this figure **completely** made of?

- Lines Line segment Line segment Rays None of these

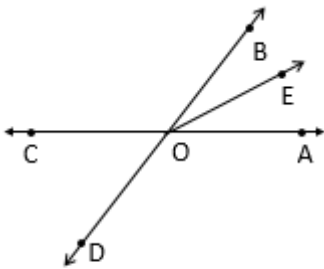
11



Which of the following rays are the arms of $\angle BOA$?

- OB, OE
 OE, OA
 OB, OA
 OC, OA

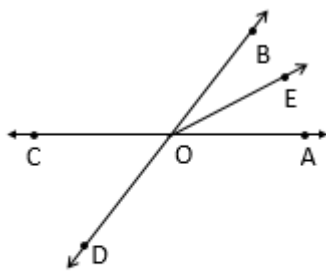
12



Which of the following rays are the arms of $\angle EOA$?

- OB, OE
 OE, OA
 OB, OA
 OC, OA

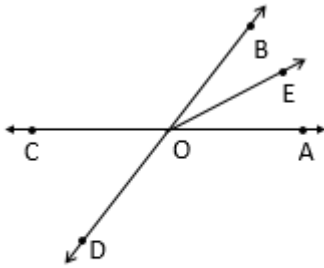
13



Which of the following rays are the arms of $\angle DOA$?

- OB, OE
 DO, OA
 OB, OA
 OC, OA

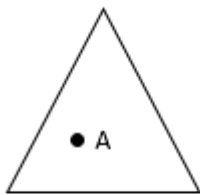
14



Which of the following rays are the arms of $\angle COD$?

- OB, OE
 DO, OA
 OB, OA
 OC, OD
 OC, OD

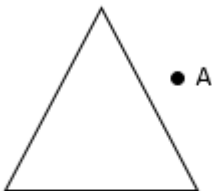
15



Is point A in the interior or exterior?

- Interior
 Interior
 Exterior

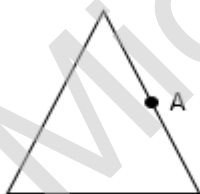
16



Is point A in the interior or exterior?

- Interior
 Exterior
 Exterior

17



Is point A in the interior or exterior?

- Interior
 Exterior
 On the line
 On the line

18

What shape is a full moon?

- Circle Square Rectangle Triangle

19

What shape is a half moon?

- Semi Circle Circle Rectangle Triangle

20

What shape is a wheel in a scooter?

- Circle Square Rectangle Triangle

21

What shape is the sun?

- Circle Square Rectangle Triangle

22

The complete distance around a circle is

- Sector Quadrant Circumference Segment

23

One- fourth part of a circle is known as

- Quadrant Semi- circle Sector Segment

24

The longest chord of the circle is equal to its

- Radius Diameter Circumference Secant

25

An arc is a continuous part of the _____ of the circle

- Diameter Major Segment Circumference Chord

26

The center of the circle always stays in/on the

- Interior Exterior The boundary It can be anywhere

27

An exact location in space is called a

- Ray Point Line Segment Plane

28

Which of the following has no end points?

- \overleftrightarrow{AB} \overline{CD} \overrightarrow{BC} \overline{EF}

29

A quadrilateral is a simple closed figure formed by _____ line segments

- 3 4 2 5

30

The radius of a circle is 3 cm. Its diameter shall be

- 9 cm 1.5 cm 2 cm 6 cm

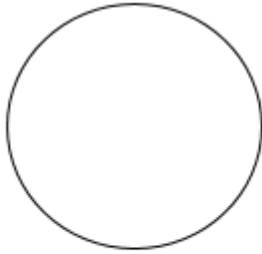
31

What is a ray?

- A line which extends in both the sides A line with limited length
 A line which extends only from one side None of these

32

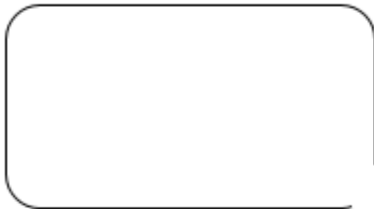
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Is the following a closed or open figure?

- Closed Figure Closed Figure Open Figure

33



Is the following a closed or open figure?

- Open Figure Open Figure Closed Figure

34



Is the following a closed or open figure?

- Open Figure Closed Figure Closed Figure

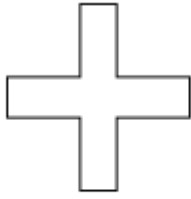
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Is the following a closed or open figure?

- Open Figure Open Figure Closed Figure

36



Is the following a closed or open figure?

- Closed Figure Open Figure

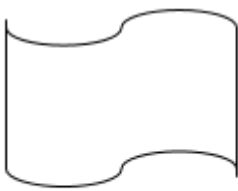
37



Is the following a closed or open figure?

- Open Figure Closed Figure

38



Is the following a closed or open figure?

- Closed Figure Open Figure

39



Is the following a closed or open figure?

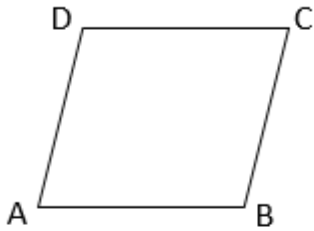
- Open Figure Open Figure Closed Figure

40

Answer whether true or false:
Any quadrilateral has two angles

- True False

41



Name all the adjacent sides
present in this figure

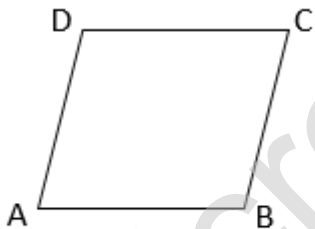
- AB,BC ; BC,CD ; CD,DA ; DA,AB AB,BC ; BC,CD ; CD,DA ; DA,AB
 AB,BC ; BC,CA ; CD,DA ; DA,AC AB,AC ; BC,CD ; CA,DA ; DA,AB
 AB,BC ; BC,CD ; CD,DC ; DA,AB

42

Which of these is an example of an angle in our environment?

- Calculator An open scissors A paper A chocolate wrapper

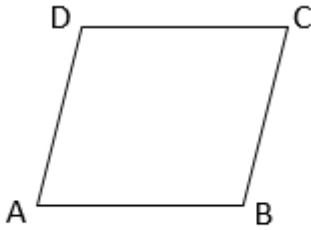
43



Name all the opposite sides
present in this figure

- AB,CA ; AD,BC AB,CD ; AD,BC AB,CD ; AD,BC AB,CD ; AD,BA
 AB,CD ; AD,BD

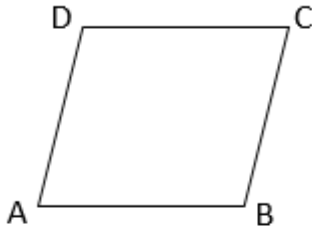
44



Name all the adjacent angles present in this figure

- $\angle A, \angle D; \angle D, \angle C; \angle C, \angle B; \angle B, \angle A$ $\angle A, \angle D; \angle D, \angle C; \angle C, \angle B; \angle B, \angle A$
 $\angle A, \angle D; \angle D, \angle C; \angle A, \angle B; \angle B, \angle C$ $\angle A, \angle B; \angle D, \angle C; \angle C, \angle B; \angle B, \angle D$
 $\angle A, \angle D; \angle A, \angle C; \angle C, \angle D; \angle B, \angle C$

45



Name all the opposite angles present in this figure

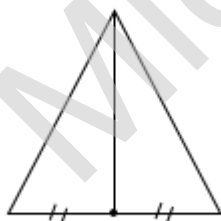
- $\angle A, \angle C$ and $\angle B, \angle D$ $\angle A, \angle C$ and $\angle B, \angle D$ $\angle A, \angle B$ and $\angle B, \angle C$
 $\angle A, \angle D$ and $\angle B, \angle C$ $\angle B, \angle C$ and $\angle A, \angle C$

46

A basketball ground's shape is a quadrilateral. If a player places his foot _____ with a ball in his hand, it is considered to be out.

- On the interior of the quadrilateral On the exterior or on of the quadrilateral
 All of these None of these

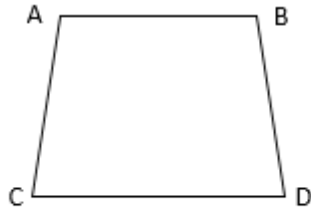
47



Are BC and AD are medians?

Yes No

48



Where is the quadrilateral region of the following figure ABCD?

- On the interior of ABCD On the exterior of ABCD
 On the quadrilateral ABCD All of these

49

How many planes are present in a cube?

- 5 6 7 8

50

What is the longest chord in a circle?

- Radius Centre Circumference Diameter

51

What are two or more circles with a common center known as?

- Concentric Circles Circles Superlative Circles None of these

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