



**Question: 5 of 50**

QID: 19468

Marks: 1

Solve:  $-6/13 - (-7/15)$ 

- A.  $(1/195)$   B.  $(2/195)$   
 C.  $(1/190)$   D.  $(11/195)$

**Question: 6 of 50**

QID: 19501

Marks: 1

Which of the following is incorrect about mode?

- A. It is the average of the two middle terms.  B. It occurs most frequently  
 C. It is a central tendency  D. It may be between the maximum and minimum observations

**Question: 7 of 50**

QID: 19493

Marks: 1

In a class test containing 10 questions, 5 marks are awarded for every correct answer and  $(-2)$  marks are awarded for every incorrect answer and 0 for questions not attempted. Mohan gets four correct and six incorrect answers. What is his score?

- A. -8  B. 8  
 C. 80  D. 50

**Question: 8 of 50**

QID: 19491

Marks: 1

Riley ate  $(3/5)$  part of an apple and the remaining apple was eaten by her brother Sam. What part of the apple did Sam eat? Who had the larger share? By how much?

- A. Riley's share is larger than the share of Sam by  $(2/5)$   B. Sam's share is larger than the share of Riley by  $(1/5)$   
 C. Riley's share is larger than the share of Sam by  $(1/5)$   D. Riley's share is larger than the share of Sam by  $(4/5)$

**Question: 9 of 50**

QID: 19512

Marks: 1

Every integer is a \_\_\_\_ number

- A. whole  B. natural  
 C. rational  D. positive

**Question: 10 of 50**

QID: 19502

Marks: 1

Is 9 a factor of  $68b + 64c$  ?

 A. Yes B. No**Question: 11 of 50**

QID: 19476

Marks: 1

A local cricket team played 20 matches in one season. It won 25% of them. How many matches did they win?

 A. 1 B. 5 C. 4 D. 3**Question: 12 of 50**

QID: 19494

Marks: 1

The given figure shows a party cap. What is the cross - section obtained when a horizontal cut parallel to base is given to the cap?

 A. Triangle B. Square C. Rectangle D. Circle**Question: 13 of 50**

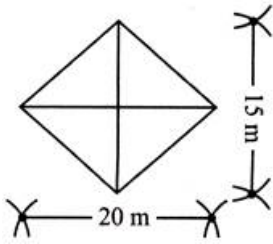
QID: 19474

Marks: 1

A plane is flying at the height of 5000 m above sea level. At a particular point, it is exactly above a submarine floating 1200 m below sea level. What is the vertical distance between them?

 A. 6200m B. 3800m C. 6000m D. 6020m

A field in shape of a rhombus is shown as image. Find the area.



- A. 300 sq m
  B. 150 sq m
- C. 400 sq m
  D. 450 sq m

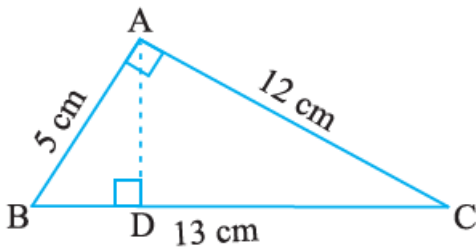
Every \_\_\_\_ number is smaller than 0.

- A. positive
  B. natural
- C. negative
  D. rational

A tree is broken at a height of 5 m from the ground, and its top touches the ground at a distance of 12 m from the base of the tree. Find the original height of the tree.

- A. 13cm
  B. 7cm
- C. 17cm
  D. 18cm

$\triangle ABC$  is right-angled at A. AD is perpendicular to BC. If AB = 5 cm, BC = 13 cm, and AC = 12 cm, . Find the length of AD.



- A. 4.66 cm
  B. 4.6 cm
- C. 4.606 cm
  D. 6.4cm

If the circumference of a circular sheet is 154 m, find its radius. Also, find the area of the sheet. (Take  $\pi = 22/7$ )

- A. 1886.5.                       B. 1880.5.  
 C. 1086.5.                       D. 1896.5.

The circular grass lawn of radius 28 m has a path of width 7 m around it on the outside. What is the area of the path?

- A. 1380 sq. m.                       B. 1280 sq. m.  
 C. 1386 sq. m.                       D. 1836 sq. m.

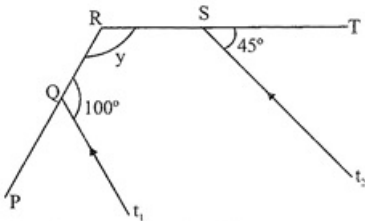
A student has to secure 33% marks to pass. He got 66 marks and just got pass marks. What is the maximum number of marks?

- A. 100                                       B. 200  
 C. 300                                       D. 400

The decimals 0.919, 9.19, 0.0919, 91.96 and 0.9919 can be arranged in descending order as

- A.  $91.96 > 9.19 > 0.9919 > 0.919 > 0.0919$                        B.  $91.96 > 0.9919 > 9.19 > 0.0919 > 0.919$   
 C.  $91.96 > 0.9919 > 0.0919 > 9.19 > 0.919$                        D.  $9196 > 9.19 > 0.919 > 0.0919 > 0.9919$

Find the unknown angle  $y$  in the figure.  $t_1 \parallel t_2$



- A. 120 degrees                       B. 125 degrees  
 C. 150 degrees                       D. 140 degrees

**Question: 23 of 50**

QID: 19478

Marks: 1

Simplify:  $(-3)^2 \times (-5)^2$ 

- A. 225
- B. 215
- C. 250
- D. 300

**Question: 24 of 50**

QID: 19465

Marks: 1

Wendy needs  $c$  cups of flour to make brownies. She has 5 cups of flour in her cupboard. Choose the expression that shows how many cups of flour Wendy will have left after making the brownies.

- A.  $5-c$
- B.  $c$
- C.  $5+c$
- D.  $c-5$

**Question: 25 of 50**

QID: 19513

Marks: 1

Identify the false statement.

- A. A triangle with two equal sides is called a scalene triangle.
- B. A triangle with a right angle is called a right angled triangle.
- C. A triangle with three equal sides is called an equilateral triangle.
- D. A right angled triangle has two acute angles and a right angle.

**Question: 26 of 50**

QID: 19469

Marks: 1

Four cows are tied at the four corner of the square field of side 20m so that they can just reach to each other. What is the area of the field which remain ungrazed?

- A. 80 square m
- B. 83 square m
- C. 87 square m
- D. 90 square m

**Question: 27 of 50**

QID: 19487

Marks: 1

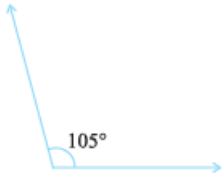
Add:  $-7mn + 5$ ,  $12mn + 2$ ,  $9mn - 8$ ,  $-2mn - 3$ 

- A.  $12mn - 4$
- B.  $12m - 4$
- C.  $12mn + 4$
- D.  $12mn + 40$

Express the number appearing in the following statements in standard form. The distance between Earth and Moon is 384000000 m.

- A.  $3.82 \times 10^8$  m.                       B.  $3.44 \times 10^8$  m.
- C.  $3.04 \times 10^8$  m.                       D.  $3.84 \times 10^8$  m.

Find the supplement of the following angle:

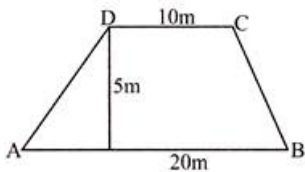


- A. 68 degrees                               B. 70 degrees
- C. 75 degrees                               D. 60 degrees

The multiplicative inverse of  $97/89$  is

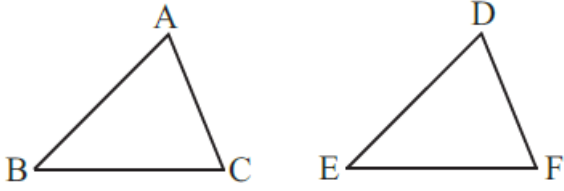
- A.  $(89/97)$                                B. 0
- C. 1     D.  $(-89/97)$

Look at the trapezium below: Find area of trapezium?



- A. 200sq.m                               B. 100sq.m
- C. 50sq.m                                 D. 75sq.m

Which congruence criterion do you use in the following? Given:  $AC = DF, AB = DE, BC = EF$ . So,  $\triangle ABC$  is congruent to  $\triangle DEF$ .


 A. SAS

 B. ASA

 C. SSS

 D. RHS

## Question: 33 of 50

QID: 19472

Marks:1

Examine the containers below. Which container holds  $\frac{1}{8}$  litre of liquid?


 A. Cereal Bowl

 B. Drinking Glass

 C. Lemonade Pitcher

 D. Tea Cup

## Question: 34 of 50

QID: 19506

Marks: 1

Fill in the missing number.

\_\_\_% of 5 = 1

 A. 5

 B. 100

 C. 1

 D. 20

## Question: 35 of 50

QID: 19480

Marks: 1

The scores on the Mathematics test (out of 25) of 15 students are as follows: 19, 25, 23, 20, 9, 20, 15, 10, 5, 16, 25, 20, 24, 12, 20. Find the mode

 A. 10

 B. 15

 C. 25

 D. 20



Give the order of rotational symmetry for the figure:



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

In which of the following does the shaded part represent one fourth of its whole?

- A.                        B.   
 C.                        D. 

Which alphabet below shows horizontal as well as vertical lines of symmetry?

- A. K                                       B. H  
 C. M                                       D. T

Identify how many 'lines of symmetry', if any, in the following figure:



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

**Question: 40 of 50**

QID: 19485

Marks: 1

Set up an equation in the following case. Ira says that she has 7 marbles more than five times the marbles Pam has. Ira has 37 marbles

- A.  $5m + 6 = 37$                        B.  $5m + 7 = 37$   
 C.  $5m + 1 = 37$                        D.  $5m - 7 = 37$

**Question: 41 of 50**

QID: 19473

Marks: 1

The perimeter of a square is 12 cm less than the perimeter of a rectangle. Each side of the square is of length 16 cm. While the length of the rectangle is 20 cm, find its breadth?

- A. 12cm                                       B. 14cm  
 C. 18cm                                       D. 20 cm

**Question: 42 of 50**

QID: 19477

Marks: 1

Arrange the following in descending order:  $\frac{2}{9}$ ,  $\frac{2}{3}$ ,  $\frac{8}{21}$

- A.  $(\frac{2}{3}) < (\frac{8}{21}) < (\frac{2}{9})$                        B.  $(\frac{2}{3}) \geq (\frac{8}{21}) > (\frac{2}{9})$   
 C.  $(\frac{2}{30}) > (\frac{8}{21}) > (\frac{2}{9})$                        D.  $(\frac{2}{3}) > (\frac{8}{21}) > (\frac{2}{9})$

**Question: 43 of 50**

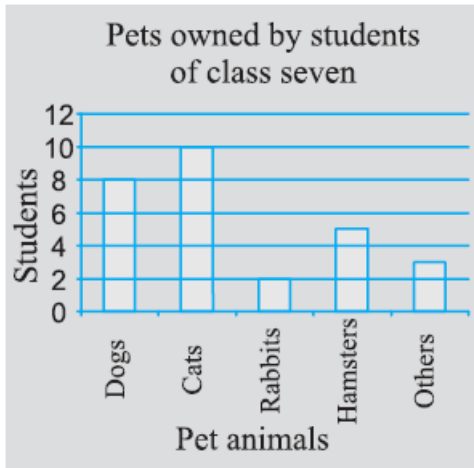
QID: 19508

Marks: 1

Which among the following pair of numbers are co-primes?

- A. 10353 and 1073                       B. 2233 and 3689  
 C. 3553 and 1755                       D. 204 and 189

Use the bar graph to answer the following questions. How many students have dogs as a pet?



- A. 8
  B. 10
- C. 12
  D. 6

## Question: 45 of 50

QID: 19486

Marks: 1

How do you write 20% as a decimal?

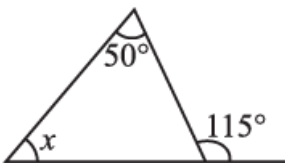
- A. 2.0
  B. 0.02
- C. 0.2
  D. 0.002

## Question: 46 of 50

QID: 19481

Marks: 1

Find the value of the unknown interior angle  $x$  in the following figure:



- A. 65 degrees
  B. 60 degrees
- C. 50 degrees
  D. 100 degrees

## Question: 47 of 50

QID: 19507

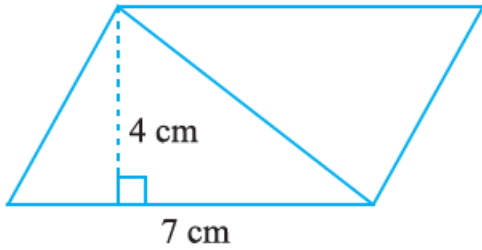
Marks: 1

Simplify the expression:

$$5 - 4v + -6v$$

- A.  $-10v + 5$ 
 B.  $-6v + 5$

Find the area of each of the following parallelogram.



- A. 20 square cm
- B. 22 square cm
- C. 28 square cm
- D. 30 square cm

Choose the correct option in which a triangle CANNOT be constructed with the given lengths of sides.

- A. 13 cm, 6 cm, 8 cm
- B. 6 cm, 6 cm, 6 cm
- C. 9 cm, 6 cm, 2 cm
- D. 3 cm, 13 cm, 15 cm

PQR is a triangle, right-angled at P. If PQ = 10 cm and PR = 24 cm, find QR.

- A. 25cm
- B. 26cm
- C. 36cm
- D. 44cm

--- END OF QUESTION PAPER ---