



# **REET Maths Paper 1 Top 50 Questions PDF**

- Q1. Value of (-3)3 x (0.3)-2 x 0.01 lies:
- (a) between —2.5 and —2.25
- (b) between 3 and 3.5
- (c) between -3.5 and -2.5
- (d) between 2.5 and 3.5
- **Q2.** If A and B are digits such that

3 A

then the value of twice of AB is:

- (a) 52
- (b) 102
- (c) 104
- (d) 54
- **Q3.** Sum of all the factors of 6 (except itself) is equal to 6. Which of the following numbers depicts the same type of property?
- (a) 27
- (b) 36
- (c) 32
- (d) 28
- **Q4.** A square number is divisible by 6. Then, which of the following statements need not always be true about that square number?
- (a) Itis divisible by 36
- (b) Its square root is divisible by 6
- (c) Its square root is divisible by 3
- (d) Itis divisible by 24
- **Q5.** Which of the following numbers is divisible by 3 and 4 both?
- (a) 1716
- (b) 1816
- (c) 1713
- (d) 1178
- **Q6.** After joining as a chemist in a fire cracker production company, Meenu was told that to make a specific type of gun powder; Carbon, Sulphur and Pottasium Nitrate must to be mixed in the ratio 3:2:1. If 1.2 kg of gun powder is to be made, then how much Sulphur she should add?







- (a) 200g
- (b) 300g
- (c) 400g
- (d) 600g
- **Q7.** When Babu purchased a new Nissan Micra in 2020, its price was 5,00,000 /-. Every year, its price will decrease 4% from that years price. What will be its price (in rupee) in the year 2022?
- (a) 4,80,000
- (b) 4,60,800
- (c) 4,60,000
- (d) 5,60,800
- **Q8.** A ten litre mixture consists of acid and water only. The acid is 60% in that mixture. If we want to make the percentage of water 25% in the mixture, then how much more acid has to be added to it?
- (a) 3L
- (b) 4L
- (c) 6L
- (d) 7L
- Q9. If  $x + \frac{y}{2} = \frac{1}{4}$ ,  $y + \frac{z}{2} = \frac{1}{4}$  and  $z + \frac{x}{2} = \frac{1}{4}$ , then the value of x + y + z is:
- (a) 1/4
- (b) 1/3
- (c) 1/2
- (d) 1

If a and b are positive integers (a and b  $\neq 0$ ) such that  $a^b$  =4913, then (a+b)a-b-14 is equal to :

- Q10.
- (a) 0
- (b) 1
- (c) 13
- (d) 23
- **Q11.** The measures of four angles of a quadrilateral are in the ratio of 1:2: 3 : 4. What is the measure of the smallest angle ?
- (a) 18°
- (b) 20°
- (c) 36°
- (d) 72°
- Q12. If a polyhedron has 6 faces and 12 edges, then number of its vertices is :
- (a) 4
- (b) 8
- (c) 14
- (d) 18





<b>Q13.</b> In a rectangle ABCD, AC= (2x +3) cm and BD=(3x—5) cm. Then, value of (2x +09) is: (a) 8 (b) 16 (c) 25 (d) 27
Q14. Bisectors of angles B and C of a triangle ABC intersect at a point O. If ∠BOC=105° then ∠BAC is equal to: (a) 15° (b) 30° (c) 45° (d) 50°
Q15. If x and y are respectively the supplement and complement of an angle 60° then value of(x+y) is equal to:  (a) 120°  (b) 185°  (c) 145°  (d) 150°
Q16. Area of a rhombus, whose diagonals are of lengths 12 cm and 25 cm, is:  (a) 150 cm <sup>2</sup> (b) 100 cm <sup>2</sup> (c) 300 cm <sup>2</sup> (d) 75 cm <sup>2</sup>
Q17. MORE is a trapezium in which as MO  RE, MO = 24 units and RE = 18 units. If area of the trapezium is 336 square units, then the distance between MO and RE is:  (a) 12 units  (b) 14 units  (c) 16 units  (d) 18 units
<b>Q18.</b> A gift box of cuboidal shape has to be covered by paper which costs $\stackrel{?}{\underset{?}{?}}$ 0.50 per square centimetres. If the box has dimensions 8cm X 3 cm X 5 cm, then the cost of the paper will be:  (a) $\stackrel{?}{\underset{?}{?}}$ 158.00  (b) $\stackrel{?}{\underset{?}{?}}$ 79.00

(c) ₹ 316.00 (d) ₹ 790.00





**Q19.** The median of the observations 11, 12, 14, 18, x +2, 22, 25 and 61, arranged in ascending order, is 21. Then, value of 3x +7 is :

- (a) 50
- (b) 57
- (c)64
- (d) 67

**Q20.** Numbers 3, 4, 5, . . ., 47 are written on separate slips (one number on one slip) and are kept in a box. A slip is drawn from the box, without looking into it. What is the probability of getting a number divisible by 6?

- (a) 7/44
- (b) 7/45
- (c) 8/45
- (d) 9/44

**Q21.**  $\frac{5}{2} - \frac{2}{5}$  is equal to

- (a)  $2\frac{1}{10}$
- (b)  $10^{\frac{1}{2}}$
- (c)  $10\frac{1}{5}$
- (d)  $\frac{22}{10}$

Q22. The sum of the greatest 5-digit number and the smallest 3-digit number is

- (a) 10098
- (b) 10099
- (c) 100098
- (d) 100099

**Q23.** How many pieces of wire of length  $\frac{3}{4}$  metres each can be cut from a roll of wire measuring  $11\frac{1}{4}$ ?

- (a) 15
- (b) 12
- (c) 11
- (d) 10

**Q24.** (13 hundreds + 13 ones and 13 tens — one thousand) is equal to :

- (a) 333
- (b) 343
- (c) 443
- (d) 453





**Q25.** If 0.239 + 2.93 - 1.29 = 3.92 - k, then what should be added to k to make it 3? (a) 0.995 (b) 0.949 (c) 0.849(d) 0.959 **Q26.** What is the sum of the smallest common multiple and the biggest common factor of 60, 72 and 84? (a) 1272 (b) 2532 (c) 2508 (d) 2544 **Q27.** Rama has only ₹ 50 and ₹ 100 notes with her. If the total number of notes she has is 25 and the amount of money with her is  $\ge$  1600, then the number of  $\ge$  50 and  $\ge$  100 notes with her are respectively (a) 10 and 15 (b) 15 and 10 (c) 20 and 5 (d) 18 and 7 **Q28.** Savita reaches school for a meeting 15 minutes before 9:30 am. She reached half an hour earlier than her colleague who is 35 minutes late for the meeting. What is the scheduled time of the meeting? (a) 9:05 am (b) 9:10 am (c) 9:15 am (d) 9:25 am **Q29.** There are 28 rooms in a school and each room has 6 plants. Each plant needs 180 mL of water daily. If a bottle contains 840 mL water, then what will be the number of such bottles required to water all plants in the rooms for 3 days? (a) 108 (b) 112 (c) 115(d) 118 **Q30.** Perimeters of a rectangle and a square are equal. Perimeter of the square is 48 cm and the breadth of the rectangle is 4 cm less than the side of the square. Then, the area of therectangle (in cm<sup>2</sup>) is (a) 128 (b) 96 (c) 256(d) 512

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### **Q31.** Which of the following statements is true?

- (a) Sum of a positive number and a negative number is always zero
- (b) Sum of two odd numbers is always an odd number
- (c) Sum of two even numbers is always an even number
- (d) Product of two prime numbers is always a prime number

# **Q32.** Ascending order of the numbers 0.515, 0.5, 0.06, 0.52, 0.053 is:

- (a) 0.5, 0.515, 0.52, 0.053, 0.06
- (b) 0.053, 0.06, 0.5, 0.515, 0.52
- (c) 0.053, 0.5, 0.515, 0.52, 0.06
- (d) 0.06, 0.52, 0.515, 0.5, 0.053

# Q33. Value $\sqrt{0.000081}$ is:

- (a) 0.9
- (b) 0.09
- (c) 0.009
- (d) 0.0009

# 034. The value of $(6^{-1} - 7^{-1})^{-1} - (2^{-1} - 3^{-1})^{-1} \div (-6)^{-1}$ "is:

- (a) 6
- (b) 41
- (c)43
- (d) 78

# Q35. Which of the following can be the HCF and LCM respectively of any two numbers?

- (a) 21, 372
- (b) 38, 342
- (c) 488, 62
- (d) 124, 4

#### **Q36.** If 60% of 400 + k% of 280 = 296, then the value of k is :

- (a) 68/7
- (b) 20
- (c) 28
- (d) 33

#### **Q37.**On subtracting (12a-9ab-2) from the sum of (4a-7ab-4b-5) and (a+3) (b-4), we get:

- (a) 12a-3ab b-15
- (b) -12a+3ab-15
- (c) 12a+3ab -b -15
- (d) 12a -15ab b-19





**Q38.** If 4 pipes of same type can fill a tank in 2 hours 15 minutes, then how much time will 5 pipes of same type take to fill the tank?

- (a) 1 hours 30 minutes
- (b) 1 hours 48 minutes
- (c) 1 hours 55 minutes
- (d) 2 hours 5 minutes

**Q39.** In a class, ratio of number of boys to that of girls is 2 : 3. When three boys leave the class and 3 new girls join the class, the ratio becomes 3:7. How many girls were there in the class initially?

- (a) 6
- (b) 10
- (c) 12
- (d) 18

If  $x^4 + \frac{1}{x^4}$ , x > 0, then the value of  $\left(x - \frac{1}{x}\right)$  is:

- (a)  $3\sqrt{3}$
- (b)  $\sqrt{21}$
- (c) 5
- (d)7

**Q41.** How many triangles can be drawn having its angles as 30°, 40° and 110°?

- (a) One
- (b) Two
- (c) Infinitely many
- (d) Zero

**Q42.** In  $\triangle$ ABC and  $\triangle$ PQR, AB=3.1 cm, AC=4.5 cm, PR=3.1 cm, QR=4.5 cm,  $\angle$ PRQ=60° and ∠BAC=60". Which one of the following is true?

- (a) ΔABC≌ΔPQR
- (b) ΔABC≌ΔRPQ
- (c) ΔABC≌ΔPRQ
- (d) ΔABC≌ΔRQP

**Q43.** In  $\triangle$ ABC, side BC is produced to point D and side CA is produced to point E. If  $\angle$ BAE = 115° and ∠ACD=104°, then which of the two angles ∠ABC and ∠BAC is larger and by how much?

- (a) ∠ABC, 39°
- (b) ∠ABC, 13°
- (c)  $\angle$ BAC, 26 $^{\circ}$
- (d) ∠BAC, 65°





**Q44.** The sides of a triangle are 3 cm, 4 cm and (x + 1) cm, where x is an integer. Then, x can take the value/values:

- (a) From 0 cm to 6 cm
- (b) From 1 cm to 6 cm
- (c) From 1 cm to 5 cm
- (d) Only 4 cm

**Q45.** Angles of a quadrilateral are in the ratio 3: 5:4: 6. Then, sum of the smallest and greatest angles of the quadrilateral is :

- (a) 180°
- (b) 170°
- (c)  $140^{\circ}$
- (d) 160°

**Q46.** The length of a hall is 60 m, breadth is 32 m and height is 8 m. Area of one of its longer wall (in m<sup>2</sup>) is :

- (a) 240
- (b) 256
- (c)480
- (d) 1920

**Q47.** The volume  $(in cm^3)$  of a cylinder, whose base diameter is 8 cm and height is 7/8 of the base radius, is:  $(use \pi = \frac{22}{7})$ 

- (a) 154
- (b) 176
- (c) 704
- (d) 1408

**Q48.** The cost of painting a cube on all the faces at the rate of 3/- per  $^{cm^2}$  is 1,152/-. What is the length of its edge (in cm)?

- (a) 4
- (b) 6
- (c) 8
- (d) 14

**Q49.** The median of numbers 10, 8, 2, 7, 3, 8, 5, 1 is k. If 10 is replaced by 1, then new median is r. The value of (k - r) is:

- (a) -1.5
- (b) 0
- (c) 1
- (d) 2





**Q50.** An integer is chosen from integers 1 to 100 at random. What is the probability that if is not divisible by 7?

- (a) 17/20
- (b) 22/25
- (c) 7/50
- (d) 43/50

# **Solutions**

### **S1.** Ans.(c)

Sol.

$$(-3)^3 \times (0.3)^{-2} \times (0.01)$$
  
 $-\frac{27}{0.09} \times 0.01 = -3$ 

#### **S2.** Ans.(c)

**Sol.** A = 5 and B = 2

AB = 52 but twice of  $AB = 2 \times 52 = 104$ 

#### **S3.** Ans.(d)

**Sol.** The factors of 28 are: 1, 2, 4, 7, 14, 28.

Sum of the factors excluding 28

1+2+4+7+14=28

Thus, the number 28 satisfies the property that the sum of all its factors (excluding itself) equals the number itself. This type of number is known as a perfect number.

#### **S4.** Ans.(d)

Sol. It is divisible by 24

 $n^2=(6k)^2=36k^2$ 

n<sup>2</sup> is divisible by 36 but not necessarily by 24.

For example, if n=6,  $n^2=36$ , which is not divisible by 24.

# **S5.** Ans.(a)

**Sol.** For option 1716

**Sum of digits**: 1+7+1+6=15

15 is divisible by 3 and last two digits 16

16 is divisible by 4.

#### **S6.** Ans.(c)

**Sol.** The total parts of the ratio: 3+2+1=6 parts

Weight of one part=1.2/6 kg=0.2 kg

Weight of Sulphur= $2 \times 0.2$  kg=0.4 kg = 400g







# **S7. Ans.(b)**

#### Sol. Price in 2021:

Price in 2021=Price in  $2020 \times (1-0.04)$ 

Price in  $2021=5,00,000\times0.96 = Rs.4,80,000$ 

#### Price in 2022

Price in 2022=Price in  $2021 \times (1-0.04)$ 

Price in  $2022=4,80,000\times0.96 = Rs. 4,60,800$ 

# **S8.** Ans.(c)

**Sol.** Amount of acid in the initial mixture Acid=0.60×10 L=6 L

Amount of water in the initial mixture: Water=0.40×10 L=4 L

Let's assume x liters of acid is added

New total volume=(10+x) L

New amount of acid: (6+x) L

Percentage of water= (Amount of water/ New total volume) ×100=25%

$$\frac{4}{10+x} = 0.25$$

$$4=0.25\times(10+x)$$

$$4-2.5=0.25x$$

$$1.5=0.25x$$

x=6L

#### S9. Ans.(c)

Sol.

$$x + \frac{y}{2} = \frac{1}{4}$$
,  $y + \frac{z}{2} = \frac{1}{4}$  and  $z + \frac{x}{4} = \frac{1}{4}$ 

$$x + \frac{y}{2} + y + \frac{z}{2} + z + \frac{x}{2} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$$

$$\frac{3x}{2} + \frac{3y}{2} + \frac{3z}{2} = \frac{3}{4}$$

$$x + y + z = 1/2$$

#### S10. Ans.(b)

Sol.

$$a^b = 4913$$

$$(17)^3 = 4913$$

$$(17+3)^{17-3-14} = (20)^0 = 1$$





# S11. Ans.(c)

**Sol.** The measures of four angles of a quadrilateral = x, 2x, 3x and 4x

$$x + 2x + 3x + 4x = 360^{\circ}$$

$$10x = 360^{\circ}$$

 $x = 36^{\circ}$  (smallest angle)

# **S12.** Ans.(b)

Sol. V-E+F=2

Given F=6 and E=12

6-12+F=2

F = 2 + 6 = 8

# S13. Ans.(c)

**Sol.** Given AC=2x+3 and BD=3x-5

Here diagonals are equal

$$2x+3=3x-5$$

x=8

2x+9=2(8)+9=16+9=25

#### **S14.** Ans.(b)

Sol.

$$\angle BOC = 90^{\circ} + \frac{1}{2} \angle BAC$$

Given ∠BOC = 105°

$$105^\circ = 90^\circ + \frac{1}{2} \angle BAC$$

$$15^{\circ} = \frac{1}{2} \angle BAC$$

# S15. Ans.(d)

Sol.

The supplement of an angle 60°

$$x = 180^{\circ} - 60^{\circ} = 120^{\circ}$$

The complement of an angle 60°

$$y = 90^{\circ} - 60^{\circ} = 30^{\circ}$$

$$x + y = 120^{\circ} + 30^{\circ} = 150^{\circ}$$

### \$16. Ans.(a)

Sol.

Area of rhombus =  $\frac{1}{2} \times d_1 \times d_2 = \frac{1}{2} \times 12 \times 25 = 150 \ cm^2$ 





# **S17.** Ans.(c)

Sol.

The area of a trapezium =  $\frac{1}{2}(a+b)h$ 

$$336 = \frac{1}{2}(24 + 18)h$$

672 = 42h Type equation here.

$$h = 16 units$$

# **S18.** Ans.(b)

**Sol.** the surface area of a cuboid = 2(lb+bh+hl)

$$S = 2(8x 3 + 8 x 5 + 3 x 5) = 2(24+40+15) = 2 x 79 = 158 cm^{2}$$

the cost of the paper required to cover the gift box =  $158 \times 0.50 = Rs.79$ 

# S19. Ans.(c)

**Sol.** the median is the 5th observation x + 2 = 21 or x = 19

$$3x + 7 = 3 \times 19 + 7 = 57 + 7 = 64$$

# S20. Ans.(b)

**Sol.** The total number of numbers = 47-3+1=45

The largest number in this range divisible by 6 = 42the multiples of 6 from 6 to 42 = 6,12,18,24,30,36,42

Count the number of these multiples = 1,2,3,4,5,6,7

$$P = \frac{number\ of\ favorable\ outcomes}{total\ number\ of\ outcomes} = \frac{7}{45}$$

# S21. Ans.(a)

Sol.

$$\frac{5}{2} - \frac{2}{5} = \frac{25 - 4}{10} = \frac{21}{10} = 2\frac{1}{10}$$

# S22. Ans.(d)

**Sol.** Greatest 5 – digit number = 99999

Smallest 3 - digit number = 100

Sum = 99999 + 100 = 100099

#### \$23. Ans.(a)

Sol.

Length of the wire =  $11\frac{1}{4} = \frac{45}{4}$ 

Number of pieces of wire of length  $\frac{3}{4} = \frac{45}{4} \times \frac{4}{3} = 15$ 





#### S24. Ans.(c)

# S25. Ans.(d)

Sol.

$$0.239 + 2.93 - 1.29 = 3.92 - k$$
  
 $\Rightarrow k = 2.041$   
And  $3 - 2.041 = 0.959$ 

So, 0.959 should be added to k to make it 3.

# **S26.** Ans.(b)

**Sol.** LCM of 60, 72 and 84 = 2520 HCF of 60, 72 and 84 = 12Sum = 2520 + 12 = 2532

# **S27.** Ans.(d)

Sol.

Let the number of  $\mathbf{\xi}$  50 notes = x Let the number of ₹ 100 notes = y ATQ,

$$x + y = 25$$
 .....(1)

$$50x + 100y = 1600 \dots (2)$$

Solving equation (1) and eq (2)

$$X = 18 \text{ and } y = 7$$



Sol.

Savita reached school = 9:30 – 15 minutes = 9:15 Her colleague reached school = 9:45 Meeting time = 9:45 - 35 minutes = 9:10

#### S29. Ans.(a)

Sol.

Number of plants = 
$$28 \times 6 = 168$$
  
Water needed by all plants for one day =  $168 \times 180 = 30240$  ml  
Water needed by all plants for three days =  $3 \times 30240 = 90720$  ml  
840 ml water is contained =  $1 \text{ bottle}$   
90720 ml water is contained =  $\frac{90720}{840} = 108 \text{ bottles}$ 





# \$30. Ans.(a)

**Sol.** Perimeter of square = 4a = 48

a = 12 cm

breath of the rectangle = 12 - 4 = 8 cm

ATQ,

$$2(1+8) = 48$$

L = 16 cm

Area of rectangle =  $16 \times 8 = 128$ 

#### S31. Ans.(c)

#### S32. Ans.(b)

**Sol.** Ascending order of the numbers 0.515, 0.5, 0.06, 0.52, 0.053 is 0.053, 0.06, 0.5, 0.515, 0.52.

# S33. Ans.(c)

#### S34. Ans.(d)

Sol.

$$(6^{-1} - 7^{-1})^{-1} - (2^{-1} - 3^{-1})^{-1} \div (-6)^{-1}$$

$$= \left(\frac{1}{6} - \frac{1}{7}\right)^{-1} - \left(\frac{1}{2} - \frac{1}{3}\right)^{-1} \div \left(-\frac{1}{6}\right)^{-1}$$

$$= \frac{42}{1} \cdot \frac{6}{1} \times \frac{(-6)}{1} = 78$$

#### \$35. Ans.(b)

Sol.

#### \$36. Ans.(b)

Sol.

$$\frac{60}{100} \times 400 + \frac{k}{100} \times 280 = 296$$

$$\Rightarrow 240 + \frac{14k}{5} = 296$$

$$\Rightarrow \frac{14k}{5} = 56$$

$$\Rightarrow k = 20$$

# \$37. Ans.(c)

$$= 4a - 7ab - 4b - 5 + ab - 4a + 3b - 12 = -6ab - b - 17$$

Now, 
$$-6ab - b - 17 - (12a - 9ab - 2) = -12a + 3ab - b - 15$$

#### \$38. Ans.(b)

**Sol.** 4 pipes of same type can fill a tank = 2 hours 15 minutes

1 pipes of same type can fill a tank = 2 hours 15 minutes  $\times$  4 = 9 hours

5 pipes of same type can fill a tank = 9/5 hours = 1 hour 48 minutes





# S39. Ans.(d)

**Sol.** Let the number of boys in the class = 2x

Let the number of girls in the class = 3x

When three boys leave the class and three new girls the class the new ratio will be

$$\frac{2x-3}{3x+3} = \frac{3}{7} \Rightarrow 7(2x-3) = 3(3x+3)$$

$$\Rightarrow$$
 14x - 21 = 9x + 9

$$\Rightarrow$$
 5x = 30

$$\Rightarrow$$
 x = 6

Girls in the class initially =  $6 \times 3 = 18$ 

# S40. Ans.(c)

### S41. Ans.(c)

**Sol.** Sum of given angles =  $30^{\circ}$ +  $40^{\circ}$  + $110^{\circ}$  =  $180^{\circ}$ 

Sum of angles of a triangle = 180°

Hence, infinitely triangles can be drawn.

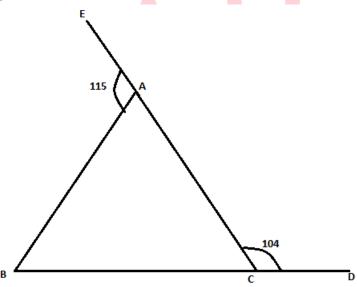
# S42. Ans.(b)

**Sol.** Since given that  $\angle$  BAC =  $\angle$  PRQ = 60° and AC = QR = 4.5 cm

Now, if we compare the remaining sides AB = 3.1 cm and PR = 3.1 cm, then we can conclude that  $\triangle$ ABC  $\equiv$   $\triangle$ PQR by SAS (Side-Angle-Side) postulate.

#### S43. Ans.(c)

Sol.



$$\angle ABC = 180^{\circ} - (65^{\circ} + 76^{\circ}) = 39^{\circ}$$





# S44. Ans.(c)

**Sol.** The sides of a triangle must satisfy the Triangle Inequality, which states that the sum of any two sides of a triangle must be greater than the third side.

In this case, we have: 3 + 4 > x + 1

$$7 > x + 1$$

x < 6

# S45. Ans.(a)

**Sol.** Let the angles of a quadrilateral = 3x, 5x, 4x, 6x

We know that  $3x + 5x + 4x + 6x = 360^{\circ}$ 

X = 20

Smallest angle  $3x = 60^{\circ}$ 

Largest angle 6x = 120°

Sum = 60 + 120 = 180°

#### \$46. Ans.(c)

**Sol.** Area of longer wall =  $60 \times 8 = 480$ 

# **S47.** Ans.(b)

**Sol.** Diameter = 8 cm

Radius = 4 cm

Height = 
$$\frac{7}{8} \times 4 = \frac{7}{2}$$

Volume = 
$$\pi r^2 h = \frac{22}{7} \times 4 \times 4 \times \frac{7}{2} = 176$$

#### S48. Ans.(c)

Sol.

Surface area of cube =  $6a^2$ 

ATQ,

$$3 \times 6a^2 = 1152$$

$$6a^2 = 64$$



### S49. Ans.(d)

**Sol.** First we arrange the numbers in increasing order

Median 
$$k = \frac{5+7}{2} = 6$$

If 10 is replaced by 1 then,

Median 
$$r = \frac{3+5}{2} = 4$$

$$K - r = 6 - 4 = 2$$

#### \$50. Ans.(d)

**Sol.** Integers divisible by 7 are 7, 14, 21, 28, 35, 42, 49, 56, 63, 70, 77, 84, 91, 98 So, integers between 1 to 100 not divisible by 7 are 100 - 14 = 86

Probability = 
$$\frac{86}{100} = \frac{43}{50}$$

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