



Special TNTET

Paper 1 2026

Mathematics

Answer

Solutions





91. The number of even prime numbers between 1 and 50 is

a) 1

b) 25

c) 15

d) 2

Prime numbers $\rightarrow$ 1 and
number itself

1 - 50

2 3 5 7

even $\rightarrow$ 2

11 13 17 19

odd $\rightarrow$ not 2

23 29 31 37

Only even prime number

~~4~~ 1 ~~4~~ 3 ~~4~~ 7

is 2

a) 1



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92. Ram brought 5 litre and 750 ml of water in a bottle to a picnic. His friend drank 1 litre 300 ml from it. How much water is remaining in the bottle?

a) 4540 ml

b) 4 litre 540 ml

c) 4 litre 450 ml

d) 4450 litre

Total water : 5 litre 750 ml

Water drank : 1 litre 300 ml

Remaining Water : $\overline{4}$ litre 450 ml

c) 1 litre = 1000 ml

$\therefore$ 4 litre = 4000 ml

= 4450 ml //



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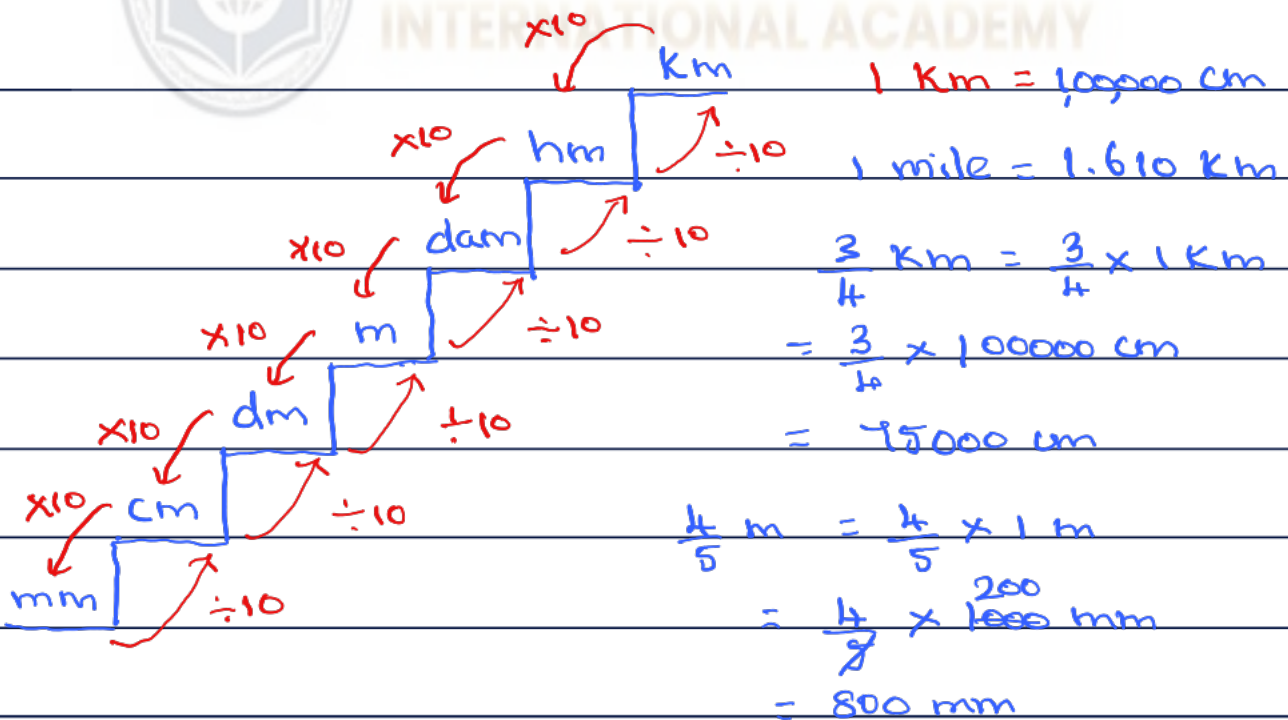


93. Match the following:

List - I		List - II	
a)	<u>1 km</u>	i)	800 mm
b)	1 mile	ii)	75,000 cm ✓
c)	$\frac{3}{4}$ km	iii)	1,00,000 cm ✓
d)	$\frac{4}{5}$ m	iv)	<u>1.610 km</u>

Choose the correct answer from the options below:

- ~~A)~~ a)-iv), b)-iii), c)-i), d)-ii) ~~B)~~ a)-ii), b)-iii), c)-i), d)-iv)
C) a)-iii), b)-iv), c)-ii), d)-i) D) a)-ii), b)-iv), c)-iii), d)-i)





94. Two sisters were playing in a room. A pearl necklace of one of them got cut off. Out of the total pearls in the necklace, one-third fell down on the floor, one-fifth fell on the bed. while the pearls falling down one sister collects one-sixth and another collects one-fifteenth. If 70 pearls remain in the necklace then the total number of pearls in the necklace is:

a) 400 pearls

b) 250 pearls

c) 300 pearls

d) 350 pearls

Handwritten solution:

Let the total number of pearls be x .

One-third fell on the floor: $\frac{1}{3}x$

One-fifth fell on the bed: $\frac{1}{5}x$

One-sixth collected by the 1st sister: $\frac{1}{6}x$

One-fifteenth collected by the 2nd sister: $\frac{1}{15}x$

70 pearls remain.

400 is marked as the total number.

$$x - \left(\frac{1}{3}x + \frac{1}{5}x + \frac{1}{6}x + \frac{1}{15}x \right) = 70$$

$$x - \left(\frac{10x + 6x + 5x + 2x}{30} \right) = 70$$

$$\frac{30x - 23x}{30} = 70$$

$$7x = 70 \times 30$$

c) $x = 300$ pearls.



95. 1 hand span is equal to :

a) 24 fingers

b) 12 fingers

c) 6 fingers

d) 18 fingers

b) 1 hand span = 12 fingers



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96. Total number of diagonals in a cube :

a) 12

b) 8

c) 4

d) 16

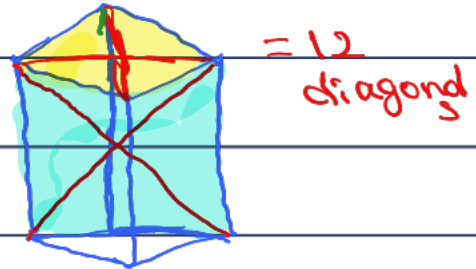
Face diagonal : 6 faces $\times$ 2

Space (body) diagonal :

$$= 2 \times 2$$

= 4 diagonals

Total diagonals = 12 + 4 = 16 d)



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97. Statement (I): Number of unit squares in a rectangle of length 6 cm and breadth 2cm is 12.

Statement (II): Number of unit squares in a square of 4cm side is 8.

- a) Both Statement (I) and Statement (II) are correct.
- b) Both Statement (I) and Statement (II) are incorrect.
- c) Statement (I) is correct but Statement (II) is incorrect.
- d) Statement (I) is incorrect but Statement (II) is correct.



Area of unit square = 1

Rectangle area = $l \times b$
 $= 6 \times 2 \text{ cm}^2$

$= 12 \text{ cm}^2$



Square Area = $a^2 = 4^2 = 16 \text{ cm}^2$

c) 16 unit squares $\neq 8$



98. Which of the following has $(x-1)$ as a factor?

a) $x^4 - 1$

b) $x^4 + 1$

c) $x^2 + 1$

d) $x^2 + 4x + 1$

$x-1 \rightarrow$ factor $f(x)$

$x=1$ root $f(1) = 0$

✓ a) $1-1 = 0$

$x-1$ $x=1$

b) $1+1 = 2 \neq 0$

$x+1$ $x=-1$

c) $1+1 = 2 \neq 0$

d) $1+4+1 = 6 \neq 0$



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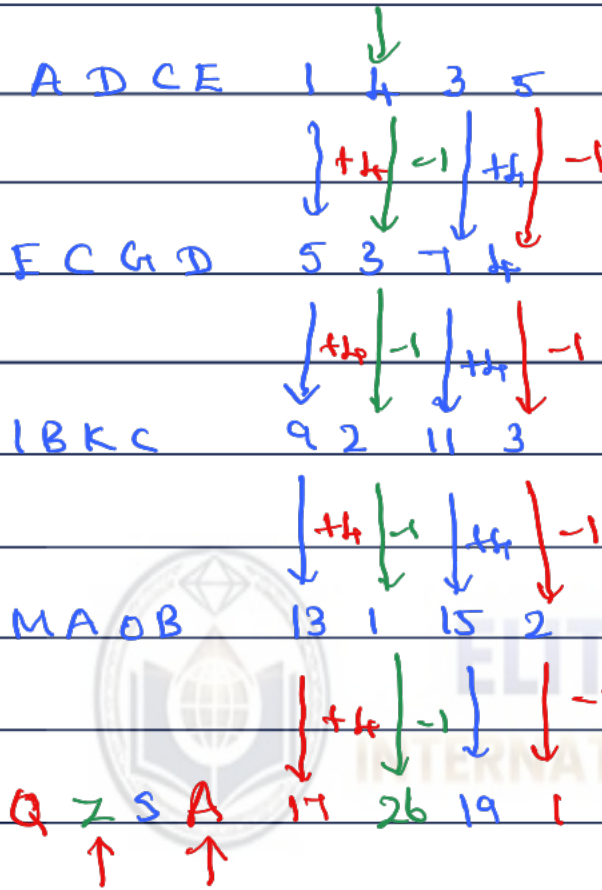
99. Next pattern in the following :

ADCE, ECGD, IBKC, MAOB, -----

a) QGTH

b) QHNI

c) QISJ d) QESF



A	1	P	9	Q	14	Y	25
B	2	J	10	R	18	Z	26
C	3	K	11	S	19		
D	4	L	12	T	20		
E	5	M	13	U	21		
F	6	N	14	V	22		
G	7	O	15	W	23		
H	8	P	16	X	24		



100. If the code (3, 4) (1, 5) (4, 2) is represent HAT and (2, 2) (4, 5) (3, 1) is RDX. Then the code

(3, 5) (1, 3) (5, 4) is represent by:

(A) HKY (B) BXR (C) FUA (D) CLK

5x5 matrix 1-5 1-5

	1	2	3	4	5	
1	V	Q	L	F	A	✓
2	W	R	M	G	B	d) CLK
3	X	S	N	H	C	← (3, 5)
4	Y	T	O	I/J	D	✓
5	Z	U	P	K	E	

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101. Statement (I): $5^0 < \sqrt{25} < (\sqrt[3]{125})^2 < (\sqrt[4]{125})^4$

Statement (II): $10^5 > 100^2 > 10^3 > 100 > 10^0$

(A) Both Statement (I) and Statement (II) are incorrect.

(B) Both Statement (I) and Statement (II) are correct.

(C) Statement (I) is correct, but Statement (II) is incorrect.

(D) Statement (I) is incorrect, but Statement (II) is correct.

$$5^0 < \sqrt{25} < (\sqrt[3]{125})^2 < (\sqrt[4]{125})^4$$

$1 \quad 5 \quad 5^2 \quad (125^{1/4})^4$

$$1 < 5 < 25 < 125$$

$$10^5 > 100^2 > 10^3 > 100 > 10^0$$

$$b) 100000 > 10000 > 1000 > 100 > 1$$



102. Which among the following rate of interest yields on interest of 270 for the principal of 1800 for one year?

(A) 10% (B) 20% (C) 25% (D) 15%

$$\text{Simple Interest} = \frac{Pnr}{100}$$

$$\overset{90-15}{270} = \frac{1800 \times 1 \times r}{100}$$

d)

$$r = 15\%$$



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103. Lakshmi needs 750ml of milk everyday. If a litre costs ₹50 what is the total amount spent by her for a month?

(a) ₹ 1152 (b) ₹ 1025 (c) ₹ 1125 (d) ₹ 1225

$$\begin{aligned}\text{Daily Consumption} &= 750 \text{ ml} \\ &= \frac{750}{1000} \text{ litre}\end{aligned}$$

$$1 \text{ litre} = 1000 \text{ ml}$$

$$1 \text{ ml} = \frac{1}{1000} \text{ litre} = 0.001 \text{ litre}$$

$$750 \text{ ml} = \frac{750}{1000} \text{ litre}$$

$$\text{one Month} = 0.75 \times 30 = 22.5 \text{ litres}$$

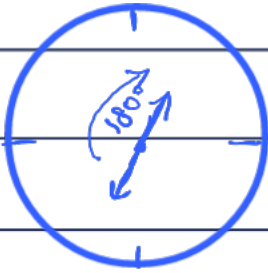
$$\text{c) Cost} = 22.5 \times 50 = ₹ 1125$$



104. An accurate clock shows 7 am. Through how many degrees will the hour hand rotate when the clock shows 1 pm?

(A) 90° (B) 180° (C) 200° (D) 110°

b)



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105. A quadrilateral in which a pair of opposite sides are parallel is:

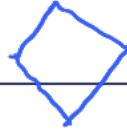
(A) Parallelogram

✓ (B) Trapezium

(C) Rhombus

(D) Rectangle

Two pairs



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106. Match the following:

a) 1 tonne i) 8 grams

b) 1 quintal ii) 1000 g

c) 1 sovereign iii) 1000 kg

d) 1 kilogram iv) 100 kg

1 tonne = 1000 kg

1 quintal = 100 kg

1 sovereign = 8 g

1 kg = 1000 g

~~(A)~~ (a)-(iii), (b)-(iv), (c)-(ii), (d)-(i)

~~(B)~~ (a)-(iii), (b)-(iv), (c) - (i) (d)-(ii)

~~(C)~~ (a)-(iii), (b)-(i), (c)-(iv), (d)-(ii)

~~(D)~~ (a)-(iii), (b)-(ii), (c)-(i), (d)-(iv)



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107. Add 3 to the number. Then multiply by 7 and subtract 13 and divide now by 5 and the answer is 24 then the number is:

(A) 14

(B) 19

(C) 15

(D) 16

$x \rightarrow \text{number}$

$$\frac{7(x+3) - 13}{5} = 24$$

$$\begin{aligned} a) (14+3) \cdot 7 \\ - 13 \div 5 \\ \neq 24 \end{aligned}$$

$$7(x+3) - 13 = 120$$

b)

$$7(x+3) = 133$$

c)

$$x+3 = 19$$

$$d) = 24$$

d)

$$x = 16$$



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108. In a particular year, additionally we have two days Monday and Tuesday except from complete weeks, then the first day of the year will fall in:

(A) Sunday (B) Monday (C) Tuesday (D) Wednesday

Ordinary (normal) year = 365 days

= 52 weeks + 1 day
1st Day

Leap year = 366 days

= 52 weeks + 2 days

Mon Tues
1st Day 2nd Day

b)

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109. In 6 hours duration, with uniform decrease in temperature, the temperature dropped How many degrees did the 42°C. temperature drop each hour?

(A) 5°C (B) 6°C (C) 7°C (D) 8°C

$$\text{Total Temperature} = 42^{\circ}\text{C}$$

$$\text{Total Time} = 6 \text{ hours}$$

$$\text{c) Drop per hour} = \frac{42}{6} = 7^{\circ}\text{C per hour.}$$



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110. The clock is set at 6 a.m. If the clock slows down four minutes every hour. Find the time shown by the clock at 7 p.m.

(A) 6:52 p.m

(B) 6:52 a.m

(C) 5:52 a.m

(D) 6:08 p.m

6 am $\rightarrow$ 7 pm = 13 hours

Total time lost = $13 \times 4 = 52$ minutes

⁶⁰
7.00 pm

- 52 minutes

d)

6:08 pm



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111. Father is 7 times as old of his son. (After 3 years father will be 4 times as old as his son) then the present age of son and father respectively are:

~~(A) 4, 28~~ (B) 3, 21 ~~(C) 5, 35~~ ~~(D) 6, 42~~ ~~6, 40~~

7 31 6 24 8 38 9 45 father

Present age x $7x$ ←

After 3 years, $4(x+3) = 7x+3$

$$4x + 12 = 7x + 3$$

$$3x = 9$$

b) Son $x = 3$

Father $7x = 21$



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112. A book was bought at ₹ 160 and sold at a loss of 10% then its selling price is:

- (A) ₹ 170 (B) ₹ 150 (C) ₹ 144 (D) ₹ 174

$$\text{Cost Price} = 160$$

$$\text{Loss \%} = 10\%$$

$$\text{Loss} = \frac{10}{100} \times \text{Cost Price} = \frac{10}{100} \times 160 = 16$$

$$\text{Selling Price} = \text{Cost Price} - \text{Loss}$$

$$c) \quad = 160 - 16 = 144$$



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113. The volume of the cube with side $(x + 5)$ cm is:

(A) $(x^3 + 15x^2 + 75x + 125) \text{ cm}^3$

(B) $(x^3 + 75x^2 + 15x + 125) \text{ cm}^3$

(C) $(x^3 + 125x^2 + 15x + 75) \text{ cm}^3$

(D) $(5x^3 + 15x^2 + 75x + 125) \text{ cm}^3$

Volume of cube with side $a = a^3 \text{ cm}^3$
 $= (x+5)^3$

$$\underbrace{(a+b)}_{x}^3 = \underbrace{a^3}_{x^3} + 3a^2b + 3ab^2 + b^3$$

a) $(x+5)^3 = x^3 + 15x^2 + 75x + 125 \text{ cm}^3$



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114. Kumar deposits $\frac{3}{4}$ part of ₹ 24,000 in a bank. He gives the remaining amount to his two

daughters equally. How much amount will they get individually?

- (A) 6,000 (B) 3,000 (C) 4,500 (D) 4,000

$$\text{Amount Deposited} = \frac{3}{4} \times 24000$$
$$= 18000 \quad 24000$$

$$24000 - 18000 = 6000$$
$$\frac{6000}{2} = 3000 \quad 3000 \quad 6000 \quad \leftarrow \frac{6000}{12000}$$

b)



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115. Given are the two statements:

Statement (I): A linear equation in two variables represents a straight line in 'xy'-plane.

Statement (II): $2xy - 3 = 7$ a linear equation.

(A) Both Statements (I) and (II) are true. (B) Both Statements (I) and (II) are false.

(C) Statement (I) is true, but Statement (II) is false.

(D) Statement (I) is false, but Statement (II) is true.

I: true $ax + by + c = 0$

II: $2xy - 3 = 7$ linear $\rightarrow$ degree 1

c) Degree $\rightarrow$ 2 false



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116. A total of 100 currency notes, consisting of ₹ 5 and ₹ 10 denominations amount to ₹ 600. Then the number of notes in each denomination is:

(A) (60, 40) notes

(B) (50, 50) notes

(C) (80, 20) notes

(D) (75, 25) notes

$x \rightarrow$ no. of ₹ 5 notes

$(15, 20)$

$y \rightarrow$ no. of ₹ 10 notes

$$x + y = 100 \quad \text{--- (1)}$$

$$5x + 10y = 600$$

$$\underline{10x + 10y = 1000}$$

$$-5x = -400 \quad x = 80$$

c)

$$y = 20$$

a) $5 \times 60 + 10 \times 40 = 300 + 400 \neq 600$

b) $5 \times 50 + 10 \times 50 = 250 + 500 \neq 600$

✓ c) $5 \times 80 + 10 \times 20 = 400 + 200 = 600$

d) $5 \times 75 + 10 \times 25 = 375 + 250 \neq 600$



117. Statement (I): A ratio has no unit.

Statement (II): Order of the terms in a ratio cannot be reversed.

In light of the above statements, choose the most appropriate answer from the options given below:

(A) Both Statement (I) and Statement (II) are correct.

(B) Both Statement (I) and Statement (II) are incorrect.

(C) Statement (I) is correct, but Statement (II) is incorrect

(D) Statement (I) is incorrect, but Statement (II) is correct





118. The quarter share, half share and three-fourth share of ₹ 1,00,000 are respectively:

- ✓ (A) ₹25,000 ₹ 50,000 ₹ 75,000 (B) ₹40,000 ₹ ~~20,000~~ ₹ 30,000
(C) ₹25,000 ₹ ~~50,000~~ ₹30,000 (D) ₹40,000 ₹ ~~25,000~~ ₹75,000

a) 25000 50000 75000



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119. Identify the incorrect statement:

(A) 0 is an even number $\rightarrow$

(B) 6 is a perfect number $\rightarrow$

(C) The total number of primes from 1 to 100 is 25 $\rightarrow$

✓ (D) 1 is either prime or composite

neither nor

Perfect number: It is a true integer that is equal to the sum of its proper true divisors excluding the number itself.

$\boxed{6} \rightarrow 1, 2, 3, \cancel{6} \quad \rightarrow \rightarrow 1, \cancel{6}$
 $6 = 1 + 2 + 3 \quad 7 \neq 1$

6, 28, 496, 8128

c)

2	3	5	7	1-50	15
11	13	17	19	1-100	25
23	29	31	37		
41	43	47	53		
59	61	67	71		
73	79	83	89		
97					



120. Which is correct?

(A) $2.945 = \frac{579}{200}$

(B) $2.176 = \frac{272}{125}$

(C) $0.35 = \frac{5}{20}$

(D) $0.28 = \frac{7}{250}$

a) $\frac{579}{200} = \frac{579 \div 2}{100} = \frac{289.5}{100} = 2.895 \neq 2.945$

✓ b) $\frac{272 \times 8}{125 \times 8} = \frac{2176}{1000} = 2.176$

c) $\frac{5 \times 5}{20 \times 5} = \frac{25}{100} = 0.25 \neq 0.35$

d) $\frac{7 \times 4}{250 \times 4} = \frac{28}{1000} = 0.028 \neq 0.28$



THANK YOU

