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Q.1 One-third of goods are sold at a 15% profit, 25% of the goods are sold at a 20% profit and the rest at a 20% loss. If the total profit of ₹138.50 is earned on the whole transaction, then the value (in ₹) of the goods is:

Ans

- √ 1. ₹8,310
- **X** 2. ₹7,756
- X 3. ₹8,030
- X 4. ₹8,587

Q.2 If $7sin^2\theta - cos^2\theta + 2sin\theta = 2$, $0^\circ < \theta < 90^\circ$, then the value of $\frac{sec\ 2\theta + cot2\theta}{cosec\ 2\theta + tan\ 2\theta}$ is

Ans

- \times 1. $\frac{2\sqrt{3}+1}{3}$
- \times 2. $\frac{2}{5}(1+\sqrt{3})$
- $\sqrt{3} \cdot \frac{1}{5} (1 + 2\sqrt{3})$
- X 4. 1
- Q.3 Two chords AB and CD of a circle are produced to intersect each other at a point P outside the circle. If AB = 7 cm, BP = 4.2 cm and PD = 2.8 cm, then the length of CD is:

- X 1 15.8 cm
- ✓ 2. 14 cm
- X 3. 14.6 cm
- X 4. 12 cm

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Q.4 The given table represents the revenue (in ₹ crores) of a company from the sale of four products A, B, C and D in 6 years. Study the table carefully and answer the question that follows.

	Years	2012	2013	2014	2015	2016	2017
	~ /→						
	Product						
)	A	98	94	80	95	110	115
	В	74	96	92	84	98	86
	С	82	98	96	88	93	103
	D	74	102	92	93	97	102

The number of years in which the revenue of the company from the sale of product D is more than the average revenue from the sale of product A over six years, is:

Ans

-	
~	
•	- /



X 4. 3

If
$$P = \frac{x^4 - 8x}{x^3 - x^2 - 2x}$$
, $Q = \frac{x^2 + 2x + 1}{x^2 - 4x - 5}$ and $R = \frac{2x^2 + 4x + 8}{x - 5}$, then $(P \times Q) \div R$ is equal to:

$$\int 1. \frac{1}{2}$$

Q.6	If the 6-digit numbers x 35624 a	nd 1257y4 are divisible b	y 11 and 72, respectively,	then what is the value of $(5x - 2y)$	ľ
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Q.7 If a+b+c=7 and ab+bc+ca=-6, then the value of $a^3+b^3+c^3-3abc$ is:

- Ans 🗸 1. 469
 - X 2. 472
 - X 3. 463
 - X 4. 479

$\overline{}$
- 1
- 1
- 1
- 1
- 1
- 1
- 1
- 1

Q.8 The given table represents the revenue (in \mathfrak{T} crores) of a company from the sale of four products A, B, C and D in 6 years. Study the table carefully and answer the question that follows.

	Years	2012	2013	2014	2015	2016	2017
	Product						
	rioduct						
)	A	98	94	80	95	110	115
	В	74	96	92	84	98	86
	С	82	98	96	88	93	103
	D	74	102	92	93	97	102

The total revenue of the company from the sale of products B, C and D in 2014 is what percentage of the total revenue from the sale of products C and D in 6 years?

- Ans 1. 25
 - X 2. 28
 - X 3. 18
 - X 4. 20

The expression $3sec^2\theta \ tan^2\theta + tan^6\theta - sec^6\theta$ is equal to:

- Ans **X** 1. −2
 - X 2. 2
 - **√** 3. **−1**
 - X 4. 1

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Q.10	PRT is a tangent to a circle with centre O, at the point R on it. Diameter SQ of the circle is produced to meet the tangent at P and QR is joined. If \angle QRP = 28°, then the measure of \angle SPR is:
Ans	X 1. 62°
	× 2. 29°
	X 3. 32°
	√ 4. 34°
Q.11	The income of A is 60% less than that of B, and the expenditure of A is equal to 60% of B's expenditure. If A's income
Q	is equal to 70% of B's expenditure, then what is the ratio of the savings of A and B?
Ans	X 1. 3:8
	× 2. 4:7
	√ 3. 2:15
	★ 4. 5 : 9
Q.12	In ΔABC, D and E are the points on sides AC and BC, respectively such that DE AB. F is a point on
	CE such that DF \parallel AE. If CE = 6 cm, and CF = 2.5 cm, then BC is equal to:
Ans	× 1. 12 cm
	× 2. 14 cm
	✓ 3. 14.4 cm
	× 4. 15.6 cm
Q.13	The difference in compound interest on a certain sum at 10% p.a. for one year, when the interest is compounded half
	yearly and yearly, is ₹88.80. What is the simple interest on the same sum for $1\frac{2}{3}$ years at the same rate?
Ans	X 1. ₹5,980
	× 2. ₹5,916
	× 3. ₹5,986
	√ 4. ₹5,920

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Q.14 A cylindrical vessel of radius 30 cm and height 42 cm is full of water. Its contents are emptied into a rectangular tub of

length 75 cm and breadth 44 cm. The height (in cm) to which the water rises in the tub is: (Take $\pi = \frac{22}{3}$)

- Ans X 1. 30
 - X 2. 45
 - **3**. 36
 - X 4. 40

Q.15

The value of $\frac{tan^2\theta - sin^2\theta}{2 + tan^2\theta + cot^2\theta}$ is:

- Ans \times 1. $cosec^6\theta$
 - \times 2. $\cos^4 \theta$
 - √3. sin⁶θ
 - X 4. sec40

Q.16 The given table represents the revenue (in ₹ crores) of a company from the sale of four products A, B, C and D in 6 years. Study the table carefully and answer the question that follows.

	Years	2012	2013	2014	2015	2016	2017
	Product						
1	A	98	94	80	95	110	115
	В	74	96	92	84	98	86
	С	82	98	96	88	93	103
	D	74	102	92	93	97	102

By what percentage is the total revenue of the company from the sale of products A, B and D in 2012 and 2013 more than the total revenue from the sale of product B in 2013 to 2016?(Correct to one decimal place)

- **1.** 45.4
- X 2. 31.2
- X 3. 43.6
- X 4. 44.5

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Q.17 The ratio of boys and girls in a group is 7:6. If 4 more boys join the group and 3 girls leave the group, then the ratio of boys to girls becomes 4:3. What is the total number of boys and girls initially in the group?

Ans

X 1. 91

X 2. 117

√ 3. 104

X 4. 78

Q.18 The time taken by a boat to travel 13 km downstream is the same as time taken by it to travel 7 km upstream. If the speed of the stream is 3 km/h, then how much time (in hours) will it take to travel a distance of 44.8 km in still water?

Ans

- \times 1. $5\frac{3}{5}$
- \times 2. $4\frac{13}{25}$
- \times 3. $5\frac{2}{5}$
- \checkmark 4. $4\frac{12}{25}$
- Q.19 The given table represents the revenue (in ₹ crores) of a company from the sale of four products A, B, C and D in 6 years. Study the table carefully and answer the question that follows.

	Years	2012	2013	2014	2015	2016	2017
	Product						
	+						
1	A	98	94	80	95	110	115
	В	74	96	92	84	98	86
	С	82	98	96	88	93	103
	D	74	102	92	93	97	102

What is the ratio of the total revenue of the company in 2014 from the sale of all the four products to the total revenue from the sale of product C in 2014 to 2017?

- X 1. 14:23
- X 2. 7:10
- X 3. 7:9
- **√** 4. 18 : 19

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Q.20 The average weight of some students in a class was 58.4 kg. When 5 students having the average weight 62.8 kg joined the class, the average weight of all students in the class increased by 0.55 kg. The number of students initially in the

Ans

- X 1. 25
- × 2. 40
- **√** 3. 35
- X 4. 30

Q.21

The value of $\frac{5\frac{1}{2} \div 3\frac{2}{3} of \frac{1}{4} + \left(5\frac{1}{9} - 7\frac{7}{8} \div 9\frac{9}{20}\right) \times \frac{9}{11}}{5 \div 5 of \frac{1}{10} - 10 \times 10 \div 20}$ is:

Ans

- \times 1. $1\frac{4}{5}$
- $\times 2.9\frac{1}{2}$
- \times 3. $3\frac{4}{5}$
- \checkmark 4. $1\frac{9}{10}$
- **Q.22** In $\triangle PQR$, $\angle Q = 85^{\circ}$ and $\angle R = 65^{\circ}$. Points S and T are on the sides PQ and PR, respectively such that $\angle STR = 95^{\circ}$, and the ratio of the QR and ST is 9:5. If PQ = 21.6 cm, then the length of PT is:

- ✓ 1. 12 cm
- X 2. 10.5 cm
- X 3. 9.6 cm
- X 4. 9 cm



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Q.23 A and B, working together, can complete a work in d days. Working alone, A takes (8 + d) days and B takes (18 + d) days to complete the same work. A works for 4 days. The remaining work will be completed by B alone, in:

Ans

- X 1 18 days
- √ 2. 24 days
- X 3. 16 days
- X 4. 20 days

		_
Q.24	The marked price of an article is $\overline{\text{<}}$ 740. After two successive discounts of 15% and x %, it is sold for $\overline{\text{<}}$ 566.10. What is	

Ans

- **1.** 10
- X 2. 12
- X 3. 5
- X 4. 20

Q.25 If $30x^2 - 15x + 1 = 0$, then what is the value of $25x^2 + (36x^2)^{-1}$?

- $X 1. \frac{9}{2}$
- **√** 2. $\frac{55}{12}$
- \times 3. $\frac{65}{12}$
- \times 4. $6\frac{1}{4}$