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Q.1 $(a+b+c-d)^2-(a-b-c+d)^2=?$

Ans

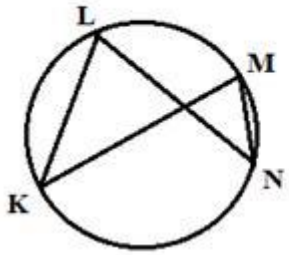
✔ 1. $4a(b+c-d)$

✘ 2. $2a(b+c+d)$

✘ 3. $2a(b+c-d)$

✘ 4. $4a(b+c+d)$

Q.2 In the given figure, if $\angle KLN = 58°$, then $\angle KMN = ?$



Ans

✘ 1. $32°$

✘ 2. $26°$

✘ 3. $42°$

✔ 4. $58°$

Q.3 The average height of 5 boys is 175 cm. A sixth boy joined the group and the ave group now increased by one centimetre. The height of the sixth boy is:

Ans

✔ 1. 181 cm

✘ 2. 180 cm

✘ 3. 179 cm

✘ 4. 175 cm

Q.4 The value of $\sqrt{tan^2 60° + sin 90°} - 2\tan 45°$ is:

Ans

✔ 1. 0

✘ 2. 4

✘ 3. 2

✘ 4. 1

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Q.5 The value of $-1+\frac{1}{4}\div\frac{1}{2}\times 2+5$ is:

Ans

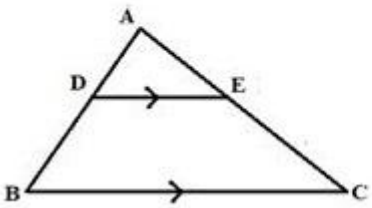
1. ✔ 5
2. ✘ 2
3. ✘ $\frac{17}{4}$
4. ✘ $-\frac{7}{2}$

Q. 6 A furniture shopkeeper allows a discount of 16% on the marked price on the goc gains 20%. What is the marked price of a dining table, which costs the shopkeep

Ans

1. ✔ ₹17,000
2. ✘ ₹12,376
3. ✘ ₹16,000
4. ✘ ₹15,000

Q. 7 In the given figure, if $DE \parallel BC$, AD = 2.5 cm, DB = 3.5 cm and EC = 4.2 cm, AC is:



Ans

1. ✘ 3 cm
2. ✔ 7.2 cm
3. ✘ 3.2 cm
4. ✘ 7.4 cm

Q. 8 The greatest number which should be replace '*' in the number 146*48 to make

Ans

1. ✔ 8
2. ✘ 0
3. ✘ 2

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✗ 4. 9

Q. 9 The following table shows the income (in rupees) for a particular month, togethe employees (A, B, C, D and E).

	A	B	C	D	E
Salary	52,000	48,500	42,000	31,000	25,000
Overtime	0	0	1,500	2,500	3,200
Arrears	5,500	4,500	4,000	3,000	1,500
Bonus	3,500	3,000	2,500	2,000	2,000
Miscellaneous income	5,000	3,000	2,000	1,500	0
Total	66,000	59,000	52,000	40,000	31,700

How many employees got more arrears than the average arrears received by all t

Ans

✗ 1. 1

✓ 2. 3

✗ 3. 2

✗ 4. 4

Q.10 The following table shows the monthly salaries (in ₹) of 50 families.

Salary (in ₹)	25,000 - 30,000	30,000 - 35,000	35,000 - 40,000	40,000 - 45,000	45,000 - 50,000
Number of families	6	12	9	19	4

How many families have a monthly salary less than ₹40,000?

Ans

✓ 1. 27

✗ 2. 46

✗ 3. 9

✗ 4. 18

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Q.11 If angles of a triangle are in the ratio of 2 : 3 : 4, then the measure of the smallest

Ans

✔ 1. 40°

✘ 2. 20°

✘ 3. 30°

✘ 4. 50°

Q.12 The coefficient of x^2 in $(2x + y)^3$ is:

Ans

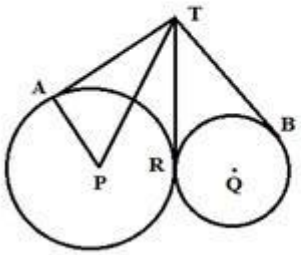
✘ 1. $12y^2$

✔ 2. $12y$

✘ 3. 8

✘ 4. 12

Q.13 In the figure, Two circles with centres P and Q touch externally at R. Tangents tangent TR at T. If AP = 6 cm and PT = 10 cm, then BT = ?



Ans

✘ 1. 12 cm

✘ 2. 10 cm

✘ 3. 6 cm

✔ 4. 8 cm

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Q.14 The following table shows the number of students enrolled in different faculties college.

Science		Arts		Commerce		Vocational	
Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys
32	18	28	45	42	42	13	30

The percentage of students studying in faculties other than Science is:

Ans
1. ✗ 20%
2. ✗ 75%
3. ✓ 80%
4. ✗ 60%

Q.15 If $x - \frac{1}{x} = 11$, then $x^3 - \frac{1}{x^3}$ is:

Ans
1. ✗ 1298
2. ✗ 1474
3. ✗ 1188
4. ✓ 1364

Q.16 The distance between two stations, A and B, is 428 km. A train starts from statio station 'B' at an average speed of 48 km/h. Another train starts from station 'B' ' 'A' at an average speed of 55 km/h. At what time will the trains meet?

Ans
1. ✗ 9:40 a.m.
2. ✗ 10:00 a.m.
3. ✓ 10:20 a.m.
4. ✗ 10:40 a.m.

Q.17 The value of $cos0°cos30°cos45°cos60°cos90°$ is:

Ans
1. ✗ 5

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✔ 2. 0

✘ 3. $\frac{\sqrt{6}}{8}$

✘ 4. 3

Q. 18 The price of sugar is increased by 20%. By what percentage must one cut down extra amount has to be incurred on sugar?

Ans

✘ 1. 80%

✘ 2. $83\frac{1}{3}\%$

✘ 3. 20%

✔ 4. $16\frac{2}{3}\%$

Q. 19 A certain amount of money at compound interest grows to ₹66,550 in 3 years ar per annum is:

Ans

✘ 1. 5%

✘ 2. 11%

✔ 3. 10%

✘ 4. 9%

Q. 20 A certain amount is divided among Sunita, Amit and Vibha in the ratio of 2 : 3 : amount is:

Ans

✘ 1. ₹3,604

✘ 2. ₹16,219

✘ 3. ₹43,248

✔ 4. ₹32,436

Q.21 The perimeter of a square is 64 cm. Its area will be:

Ans

✔ 1. 256 cm^2

✘ 2. 8 cm^2

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3. $128\ cm^2$

4. $32\ cm^2$

Q. 22 Sudhir purchased a laptop for ₹42,000 and a scanner-cum-printer for ₹8,000. He scanner-cum-printer for a 5% profit. What is his profit percentage?

Ans

1. 15%

2. $7\frac{1}{2}\%$

3. $9\frac{1}{5}\%$

4. $9\frac{2}{5}\%$

Q. 23 Sixteen men can finish a work in 8 days. Eight men and nine women working to days. In how many days will twenty women finish the same work?

Ans

1. 12

2. 11

3. 9

4. 13

Q.24 If $\tan\theta - cot\theta = cosec\theta, 0° < \theta < 90°$, then what is the value of $\frac{2tan\theta - cos}{\sqrt{3}cot\theta + se}$

Ans

1. $\frac{3\sqrt{3}-1}{6}$

2. $\frac{2\sqrt{3}-1}{3}$

3. $\frac{4\sqrt{3}-1}{6}$

4. $\frac{2(2\sqrt{3}-1)}{3}$

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Q.25 The heights of some girls in a school were noted and the data obtained are as sl table.

Height (in cm)	125 - 130	130 - 135	135 - 140	140 - 145	145 - 150	150 - 155
Number of girls	12	16	20	29	15	8

How many girls have a height of 135 cm or more but less than 150 cm?

Ans
1. 80
2. 35
3. 88
4. 64

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