

**Q.1** The given table shows the number (in thousands) of cars of five different models A, B, C, D and E produced during Years 2012-2017. Study the table and answer the question that follow.

	A	B	C	D	E	Total
2012	18	26	22	23	31	120
2013	22	18	32	40	18	130
2014	32	43	26	35	34	170
2015	18	22	26	14	20	100
2016	36	12	44	38	50	180
2017	12	48	40	22	28	150

If 2013 and 2014 are put together, which type of cars constitute exactly 25% of the total number of cars produced in those 2 years?

- Ans**
- 1. C
  - 2. D
  - 3. E
  - 4. B

**Q.2** The area of  $\Delta ABC$  is  $44 \text{ cm}^2$ . If D is the midpoint of BC and E is the midpoint of AB, then the area (in  $\text{cm}^2$ ) of  $\Delta BDE$  is:

- Ans**
- 1. 44
  - 2. 5.5
  - 3. 11
  - 4. 22

**Q.3** If the length of a rectangle is increased by 40%, and the breadth is decreased by 20%, then the area of the rectangle increases by  $x\%$ . Then the value of  $x$  is:

- Ans**
- 1. 16
  - 2. 8
  - 3. 20
  - 4. 12

**Q.4** The given table shows the number (in thousands) of cars of five different models A, B, C, D and E produced during Years 2012-2017. Study the table and answer the question that follow.

	A	B	C	D	E	Total
2012	18	26	22	23	31	120
2013	22	18	32	40	18	130
2014	32	43	26	35	34	170
2015	18	22	26	14	20	100
2016	36	12	44	38	50	180
2017	12	48	40	22	28	150

In the year 2015, which type of car constitutes exactly 20% of the total number of cars produced that year?

- Ans**
- 1. E
  - 2. B
  - 3. D
  - 4. A

**Q.5** If  $A + B = 45^\circ$ , then the value of  $2(1 + \tan A)(1 + \tan B)$  is:

- Ans**
- 1. 4
  - 2. 0
  - 3. 2
  - 4. 1

**Q.6** A train crosses a pole in 12 sec, and a bridge of length 170 m in 36 sec. Then the speed of the train is:

- Ans**
- 1. 10.8 km/h
  - 2. 25.5 km/h
  - 3. 32.45 km/h
  - 4. 30.75 km/h

**Q.7** Out of 6 numbers, the sum of the first 5 numbers is 7 times the 6<sup>th</sup> number. If their average is 136, then the 6<sup>th</sup> number is:

- Ans
- 1. 84
  - 2. 102
  - 3. 96
  - 4. 116

**Q.8** If the base radius of 2 cylinders are in the ratio 3 : 4 and their heights are in the ratio 4 : 9, then the ratio of their volumes is:

- Ans
- 1. 4 : 1
  - 2. 2 : 1
  - 3. 1 : 4
  - 4. 1 : 2

**Q.9** The radius of a circular garden is 42 m. The distance (in m) covered by running 8 rounds around it, is:  
(Take  $\pi = \frac{22}{7}$ )

- Ans
- 1. 2112
  - 2. 1124
  - 3. 4262
  - 4. 3248

**Q.10** The ratio of the number of boys to the number of girls in a school of 640 students, is 5 : 3. If 30 more girls are admitted in the school, then how many more boys should be admitted so that the ratio of boys to that of the girls, becomes 14 : 9.

- Ans
- 1. 15
  - 2. 25
  - 3. 20
  - 4. 30

**Q.11** The given table shows the number (in thousands) of cars of five different models A, B, C, D and E produced during Years 2012-2017. Study the table and answer the question that follow.

	A	B	C	D	E	Total
2012	18	26	22	23	31	120
2013	22	18	32	40	18	130
2014	32	43	26	35	34	170
2015	18	22	26	14	20	100
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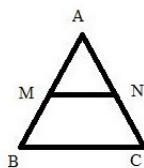
The percentage increase in the total cars in 2016 over 2012, is:

- Ans
- 1. 33.33%
  - 2. 50%
  - 3. 62.33%
  - 4. 45%

**Q.12** If  $x^{2a} = y^{2b} = z^{2c} \neq 0$  and  $x^2 = yz$ , then the value of  $\frac{ab+bc+ca}{bc}$  is:

- Ans
- 1. 3
  - 2. 3ac
  - 3. 3bc
  - 4. 3ab

**Q.13** In  $\Delta ABC$ ,  $MN \parallel BC$ , the area of quadrilateral  $MBCN=130$  sqcm. If  $AN : NC=4 : 5$ , then the area of  $\Delta MAN$  is:



- Ans
- 1. 32 cm<sup>2</sup>
  - 2. 65 cm<sup>2</sup>
  - 3. 40 cm<sup>2</sup>
  - 4. 45 cm<sup>2</sup>

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Q.14 If A lies in the first quadrant and  $6\tan A = 5$ , then the value of  $\frac{8 \sin A - 4 \cos A}{\cos A + 2 \sin A}$  is:

- Ans
- 1. -2
  - 2. 4
  - 3. 16
  - 4. 1

Q.15 A shopkeeper marks the price of the article in such a way that after allowing 28% discount, he wants a gain of 12%. If the marked price is ₹224, then the cost price of the article is:

- Ans
- 1. ₹144
  - 2. ₹196
  - 3. ₹120
  - 4. ₹168

Q.16 If  $x = 4\cos A + 5\sin A$  and  $y = 4\sin A - 5\cos A$ , then the value of  $x^2 + y^2$  is:

- Ans
- 1. 25
  - 2. 0
  - 3. 41
  - 4. 16

Q.17 If x, y, z are three integers such that  $x + y = 8$ ,  $y + z = 13$  and  $z + x = 17$ , then the value of  $\frac{x^2}{yz}$  is:

- Ans
- 1. 0
  - 2. 1
  - 3.  $\frac{7}{5}$
  - 4.  $\frac{18}{11}$

Q.18 If  $x - y = 4$  and  $xy = 45$ , then the value of  $x^3 - y^3$  is:

- Ans
- 1. 604
  - 2. 822
  - 3. 151
  - 4. 82

Q.19 The given table shows the number (in thousands) of cars of five different models A, B, C, D and E produced during Years 2012-2017. Study the table and answer the question that follow.

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The percentage decrease in the production of which type of car in 2017, with reference to 2016, was the maximum?

- Ans
- 1. C
  - 2. A
  - 3. E
  - 4. D

Q.20 A person sells an article at 10% below its cost price. Had he sold it for ₹332 more, he would have made a profit of 20%. What is the original selling price (in ₹) of the article?

- Ans
- 1. 1,028
  - 2. 996
  - 3. 896
  - 4. 1,328

**Q.21** If '+' means '-', '-' means '+', '×' means '÷' and '÷' means '×', then the value of  $\frac{42-12 \times 3+8 \div 2+15}{8 \times 2-4+9 \div 3}$  is:

- Ans
- 1.  $-\frac{5}{3}$
  - 2.  $-\frac{15}{19}$
  - 3.  $\frac{15}{19}$
  - 4.  $\frac{5}{3}$

**Q.22** If the number 1005x4 is completely divisible by 8, then the smallest integer in place of x will be:

- Ans
- 1. 1
  - 2. 4
  - 3. 2
  - 4. 0

**Q.23** ₹4,300 becomes ₹4,644 in 2 years at simple interest. Find the principle amount that will become ₹10,104 in 5 years at the same rate of interest.

- Ans
- 1. ₹8,420
  - 2. ₹9,260
  - 3. ₹7,200
  - 4. ₹5,710

**Q.24** A, B and C are three points on a circle such that the angles subtended by the chord AB and AC at the centre O are  $110^\circ$  and  $130^\circ$ , respectively. Then the value of  $\angle BAC$  is:

- Ans
- 1.  $65^\circ$
  - 2.  $75^\circ$
  - 3.  $60^\circ$
  - 4.  $70^\circ$





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**Q.25** A, B and C can individually complete a piece of work in 24 days, 15 days and 12 days, respectively. B and C started the work and worked for 3 days and left. The number of days required by A alone to complete the remaining work, is:

Ans

✓ 1.  $13\frac{1}{5}$

✗ 2. 18

✗ 3.  $15\frac{1}{2}$

✗ 4. 11