DL Assignment-01

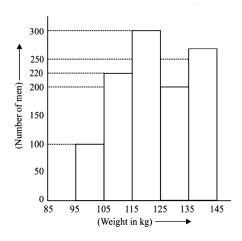
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- 1. Group which contains the maximum number of student is
 - (a) 130-140 (b) 140-150
 - (c) 150-160 (d) 160-170

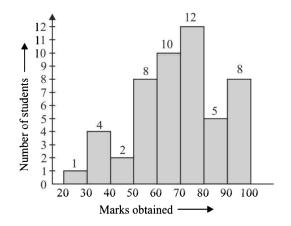
Direction(2):Study the histogram of weight distribution of different men and answer question based on it

[SSC CGL 2013]



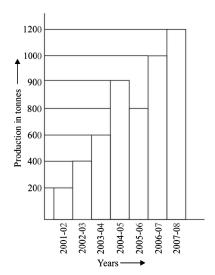
- $2. \,$ Average number of men per interval who participated in the survey is
 - (a) 180 (b) 194
 - (c) 200 (d) 214

Direction(3-4): The histogram shows the marks of 50 students in an examination. Examine the diagram and answer the question [SSC MTF 2013]



- 3. How many students obtained more than 39 but below 60?
 - (a) 6 (b) 8
 - (c) 10 (d) 12
- 4. What percent of students did obtain marks above 60%
 - (a) 60% (b) 70%
 - (c) 75% (d) 80%

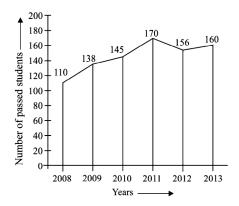
Direction(5-6):Study the graphs carefully and answer the quustion [SSC CGL 2013]



- 5. The production in 2006-07 in comparison to the production in 2002-03 increased by
 - (a) 110% (b) 120%
 - (c) 125% (d) 150%
- 6. The production decreased from 2004-05 to 2005-06 by
 - (a) $8\frac{1}{9}\%$ (b) $9\frac{1}{9}\%$
 - (c) $10\frac{1}{9}\%$ (d) $11\frac{1}{9}\%$
- 7. The year in which production increase the lowest as compared to the previous year is
 - (a) 2003-04
- (b) 2004-05
- (c) 2006-07
- (d) 2007-08
- 8. The production from 2003-04 to 2007-08 increased by

- (a) 50%
- (b) 75%
- (c) 100%
- (d) 125%

Direction(9-11):Study the following frequency polygon and answer the questions SSC CGL 2015]



- 9. The average of passed students in the years 2008, 2009, 2012 approximately is
 - (a) 134.34
- (b) 134.41
- (c) 134.56
- (d) 134.67
- 10. The increase in percentage of passed students from 2008 to 2011 approximately is
 - (a) 50.5%
- (b) 53.05%
- (c) 54.5%
- (d) 55%
- 11. The decrease in percentage of passed students from 2011 to 20122 approximately is
 - (a) 8.22%
- (b) 8.24%
- (c) 8.25%
- (d) 8.27%

Direction(12-13):Study the following data and answer the questions [SSC CGL 2015]

			-	
IQ Score	80-90	90-100	100-110	110-120
Number	6	9	16	13

- 12. Number of students who IQ score is 140 is
 - (a) 0 (b) 1
 - (c) 2 (d) Undeterminable from given data
- 13. The number of students whose IQ score is 100 and more is
 - (a) 29 (b) 35
 - (c) 36 (d) 46

- 1. A circle is inscribed in a triangle ABC. It touches the sides AB,BC and AC at the points R,P and Q respectively. If AQ=4.5cm PC=5.5cm and BR=6cm, then the perimeter of the triangle ABC is:
 - (a) 30.5cm
 - (b) 28cm
 - (c) 32cm (d) 26.5cm
- 2. The table shows the production of different types of cars (in thousands)

Cars/Years	2012	2013	2014	2015	2016
A	30	35	48	45	56
В	42	48	40	38	56
С	48	36	38	35	44
D	51	24	30	46	54
E	20	42	40	35	43

If the data related to the production of cars of type E is represented by a pie chart, the the central angle of the sector representing the data of production of cars in 2013 will be:

- (a) 102° (b) 84°
- (c) 70° (d) 80°
- 3. A truck covers a distance of 384km at a certain speed. If the speed is decreased by 16km/h, it will take 2 hours more to cover the same distance. 75\% of its original speed(in km/h) is:
 - (b) 54 (a) 45
 - (c) 48 (d) 42
- 4. The ratio of the ages of A and B, four years ago, was 4:5. Eight years from now, the ratio of the ages of A and B will be 11:13. What is the saum of their present ages?
 - (a) 80 years
- (b) 96 years
- (c) 72 years
- (d) 76 years
- 5. In \triangle ABC, F and E are the points on sides AB and AC, respectively, such the FE | BC divides the triangle in two parts of equal area. If AD \perp BC and AD intersects FE at G, the GD:AG = ?

 - (a) $\sqrt{2}:1$ (b) $(\sqrt{2}-1):1$

 - (c) $2\sqrt{2}:1$ (d) $(\sqrt{2}+1):1$
- 6. If $4-2\sin^2\theta-5\cos\theta=0$, $0^{\circ}<\theta<90^{\circ}$, then the valve of $sin\theta + tan\theta$ is:
 - (a) $\frac{3\sqrt{2}}{2}$ (b) $\frac{3\sqrt{3}}{2}$
 - (c) $3\sqrt{2}$ (d) $2\sqrt{3}$

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What is the raito of the total production of cars of type A in 2014 and type C in 2013 taken together to the total production of cars of type B in 2016 and type E in 2015 taken together?

- (a) 12:13 (b) 11:12
- (c) 10:11 (d) 12:11
- 8. If decreasing 120 by x\% gives the same result as increase 40 by x% then x% of 210 is what percent less than (x+20)% of 180?

 - (a) $33\frac{1}{3}$ (b) 18 (c) $16\frac{2}{3}$ (d) 20

- 9. If $(5\sqrt{5}x^3 81\sqrt{3}y^3) \div (\sqrt{5}x 3\sqrt{3}y) = (Ax^2 + By^2 + Cxy)$ then the value of $(6A + B - \sqrt{15}C)$
 - (a) 10 (b) 9
 - (c) 15 (d) 12
- 10. If a nine-digit number 958x3678y is divisible by 72, then the value of (4x-3y) is:
 - (a) 5 (b) 4
 - (c) 6 (d) 3
- 11. If $sin\theta = \frac{P^2-1}{P^2+1}$, then $cos\theta$ is equal to:
 - (a) $\frac{2P}{P^2+1}$ (b) $\frac{P}{P^2-1}$
 - (c) $\frac{P}{P^2+1}$ (d) $\frac{2P}{P^2-1}$
- 12. The ratio of the efficiencies of A,B and C is 2:5:3. Working together, they can complete a work in 27 days. B and C together can complete $\frac{4}{9}$ th part of that work in:
 - (a) 27days (b) 15days
 - (c) $17\frac{1}{7}$ days (d) 24days