

DL Assignment-01

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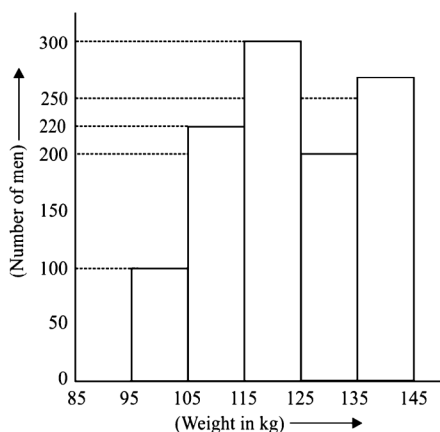
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1. Group which contains the maximum number of student is

(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

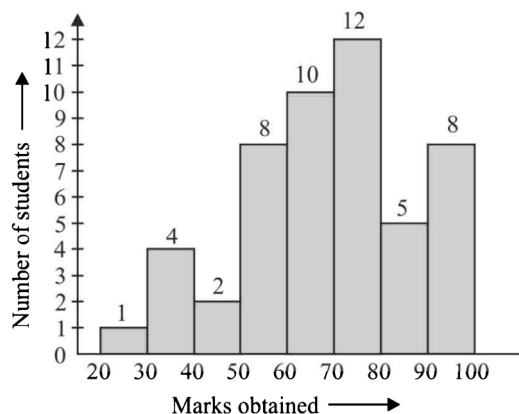
[SSC CGL 2013]



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]



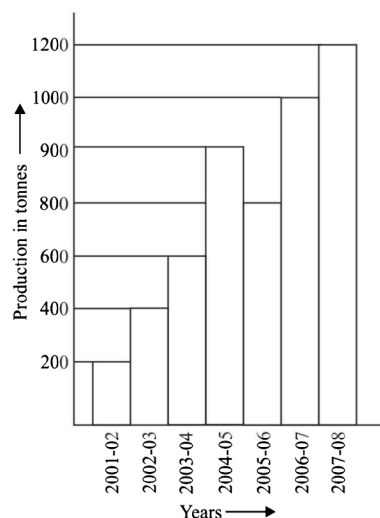
3. How many students obtained more than 39 but below 60?

(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 question [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) $11\frac{1}{9}\%$

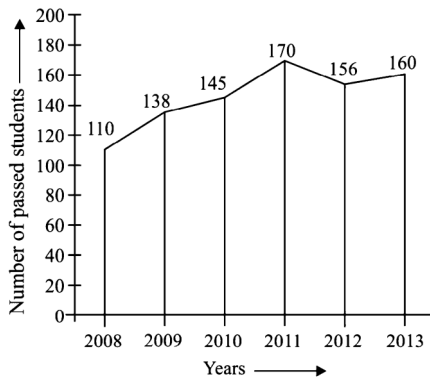
7. The year in which production increase the lowest as compared to the previous year is

(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 2012 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 $AQ=4.5\text{cm}$, $PC=5.5\text{cm}$ and $BR=6\text{cm}$, 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
B	42	48	40	38	56
C	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 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:

- (a) 45 (b) 54
(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 sum 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 that $FE \parallel BC$ 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 value of $\sin\theta + \tan\theta$ is:

- (a) $\frac{3\sqrt{2}}{2}$ (b) $\frac{3\sqrt{3}}{2}$
(c) $3\sqrt{2}$ (d) $2\sqrt{3}$

7. The table shows the production of different types of cars (in thousands)

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What is the ratio 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