

DATA INTERPRETATION

2. BAR GRAPH

Directions 1-5: The following bar chart shows the sales of a company XYZ (in Rs. Crore). Study the chart and answer the following questions.

1. (b) Total sales in 2nd and 3rd year

$$\text{Rs. } 1773 + 1115 = \text{Rs. } 2888 \text{ crore}$$

2. (a) 10th, It is clear from the graph

3. (b) rd, it is clear from the graph

4. (b) Mean = $\frac{8730 + 924}{2} = \frac{9654}{2} = \text{Rs. } 4827$

5. (b) Required difference = $(5345 - 1841) = 3504$ crores

6. (d) Total accidents = $\frac{230}{1000} \times 100 = 23\%$

Percentage of accidents with two wheelers

And other subjects = $\frac{770 \times 100}{1000} = 77\%$

Required difference = $7 - 23 = 54\%$

7. (c) Two wheelers + cars + Bases + stationary vehiclers

$$230 + 150 + 120 + 100 = 600$$

$$\frac{600}{1000} \times 100 = 60\% \text{ Ans.}$$

8. (d) $360^\circ = 1000$

$$1^\circ = 1000/360^\circ$$

$$36^\circ = \frac{1000}{360^\circ} \times 36^\circ$$

9. (a) required percentage = $\frac{40 + 200}{1000} \times 100 = \frac{24000}{1000} = 24\%$

10. (b) required difference = $\frac{160 - 120}{1000} \times 100 = 4\%$

Directions 11-12 : The following bar diagram depicts figures for some agricultural imports from January May, 2008, Answer (as closely as possible) the questions using the date provided here.

11. (a) required average price

$$\begin{aligned} &= \frac{33 \times 120 + 33 \times 120}{2} \\ &= \frac{120 \times 66}{2} = 3960 \end{aligned}$$

12. (b) required csot of wheat = $36 \times 156 = 5616$

13. (D) Required time = $\frac{5040}{3360} = 1.5$

14. (*) Foreign exchange reserves in 2007 -08 = 5040 million US \$
 Foreign exchange reserves in 2004 - 05 = 3360 million US \$
 \therefore Increase = $(5040 - 3360)$
 = 1680 million US \$

$$\therefore \text{Percentage increase} = \left(\frac{1680}{3360} \times 100 \right) \%$$

$$= 50\%$$

15. (A) There is an increase in foreign exchange reserves during the years 2002- 03, 2004-05 and 2006-07 as compared to previous year (as shown by bar-graph)
 The percentage increase in reserves during these years compared to previous year are:

(i) For 2002-03 = $\left[\frac{(3720 - 2640)}{2640} \times 100 \right] \%$

$$= 40.90\%$$

(ii) For 2004- 05 = $\left[\frac{(3360 - 2520)}{2520} \times 100 \right] \%$

$$= 33.33\%$$

(iii) For 2006 - 07 = $\left[\frac{(4320 - 3120)}{3120} \times 100 \right] \%$

$$= 38.46\%$$

Clearly, the percentage increase over previous year is highest for 2002-03.

16. (D) Average foreign exchange reserves over the given period .

$$= \left[\frac{1}{8} \times (2640 + 3720 + 2520 + 3360 + 3120 + 4320 + 5040 + 3120) \right]$$

$$= 124.13\% \approx 125\%$$

17. (C) Average foreign exchange reserves over the given period = 3480 million US\$.

The country had reserves above 3480 million US \$ during the years 2002-03, 2006-07 and 2007-08 i.e. for 3 years and below 3480 million US \$ during the years 2001-02, 2003-04, 2004-05, 2005-06 and 2008-09 i.e., for 5 years.

18. (c) Required average

$$\frac{(5 + 10 + 25 + 15) \times 1000}{6}$$

$$\frac{100000}{6} = 16666 \frac{2}{3}$$

19. (d) Required percentage =

$$\frac{(X + Y + Z) \text{ in } 2007}{(X + Y + Z) \text{ in } 2008} \times 100$$

$$= \frac{55 \times 1000}{60 \times 1000} \times 100 = 91.67\%$$

20. (a) Required % =

$$\frac{X \text{ in } 2006}{(X + Y + Z) \text{ in } 2006} \times 100$$

$$= \frac{10 \times 1000}{55 \times 1000} \times 100 = 18\% \text{ (approx)}$$

21. (b) Respective Ratio

$$= (Z \text{ in } 2005) : (Z \text{ in } 2004)$$

$$= (15 \times 1000) : (10 \times 1000) = 3 : 2$$

22. (d) Required number = Y in 2008+ Y in 2009

$$= (25 \times 1000) + (15 \times 1000)$$

$$= 40 \times 1000 = 40000$$

Q. 23-26:

23. (d) $60 + 80/2 = 70$

24. (c) $70 + 10/2 = 40$

25. (c) $80 + 50 + 10 + 20/4 = 40$.

26. (c) $60 + 50 + 70 + 30 = 210$

(27-31) :

27. 4; Average value of imports in the years 1994,

$$1995 \text{ and } 1997 = \frac{250+220+280}{3} = \text{Rs. } 250 \text{ cr}$$

$$\therefore \text{ Required percentage} = \frac{450}{250} \times 100 = 180\%$$

$$28. 4; \text{ Required percentage} = \frac{375}{250} \times 100 = 150\%$$

29. 1; Average import

$$= \frac{80+150+250+220+350+280}{6}$$

$$= \frac{1330}{6} \approx 222 \text{ cr}$$

Average export

$$= \frac{150+225+375+300+450+330}{6} = 350 \text{ cr}$$

$$\therefore \text{ Required difference} = 83 \text{ cr} \approx 85 \text{ cr}$$

30. 2; It is obvious from the given graph.

31. 4; Required percentage increase

$$= \frac{450-300}{300} \times 100 = \frac{150}{300} \times 100 = 50\%$$

Q. 32-36

32.A

Required average

$$= \frac{3297+2523+2860+2660+2770+2665+2899}{7}$$

$$= \frac{19674}{7}$$

$$= \$ 2810.57 \text{ million}$$

$$= \$ 2810.6 \text{ million}$$

33.B

Required average value

$$= \frac{3034+3210+3106+3200+2984}{5}$$

$$= \frac{15534}{5}$$

$$= \$ 3106.8 \text{ million}$$

34.E

$$\text{Required \%} = \frac{(2860 - 2523)}{2523} \times 100\%$$

$$= \frac{337}{2523} \times 100\%$$

$$= 13.35\%$$

35.E

Required change in trade gap

$$= \frac{(2770 - 2665)}{2770} \times 100\%$$

$$= 3.79\% \text{ decrease}$$

36.A

Required difference

$$= (3464+3034+3210) - (3106+3200+2984)$$

$$= 9708 - 9290 = 418$$