



Data Interpretation



✓ 1) Percentage

✓ 2) Ratios = ~~128~~ : ~~620~~

✓ 3)
$$\text{Avg} = \frac{\text{Sum of obs}}{\text{No. of obs}}$$
 $\frac{32}{155}$

✓ % increase =
$$\frac{\text{Diff.}}{\text{Less value}} \times 100\%$$

✓ % decrease =
$$\frac{\text{Diff.}}{\text{High value}} \times 100\%$$

$\boxed{20-30}$

$\boxed{\text{Table}}$ ✓

Pie chart

Bar

Line

Comb

Bubble

Spider



Data Interpretation



Directions: Study the following table carefully and answer the questions given below.

Production (in lakh units) of five companies over the years

Company	Year					Total
	2002	2003	2004	2005	2006	
KP	452	490	435	320	475	2172
ABB	142	120	105	99	96	562
KCH	250	330	290	280	310	1460
DNR	305	392	241	337	384	1659
NFC	236	93	291	309	323	1252
Total	1385	1425	1362	1345	1588	7105

The production of company KCH in 2004 is approximately what percent of its average production over the given years?

- a) 94% b) 85.3% c) 75.1% d) 98.5% e) 99.3%

5

$$\frac{290}{\text{Avg}} \times 100\%$$

$$\frac{290}{292} \times 100\%$$

$$\text{Avg} = \frac{1460}{5} = 292$$

$$< 100\%$$



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There is a gradual decrease in production every year compared to that in the previous year for which company?

a) DNR ~~b) KP~~

c) NFC

~~d) ABB~~

e) None





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What is the approximate percentage change in the production for the company KCH from 2003 to 2004?

- ☒ a) 12% increase ☐ b) 38.5% decrease
☒ c) 38.5% increase ☒ d) 12% decrease
☐ e) 14% decrease

KCH 2003 04

↓ ↓

330 → 290 ↓ decrease

$$\% \text{ decrease} = \frac{40}{330} \times 100\%$$

8. —

$$\frac{1}{8} \times 100\%$$

decrease 12.5%



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What is the average production per company per year of all the companies considering the two years 2004 and 2005? (in lakh units)

- a) 272.4 b) 269 ☒ c) 270.7 d) 281 e) None

2004

2005

$$\begin{array}{r} 1362 \\ \hline \end{array}$$

$$\begin{array}{r} 1345 \quad 269 \\ \hline \end{array}$$

$$\begin{array}{r} 272.4 + 269 \\ \hline 2 \end{array}$$

$$= \frac{541.4}{2}$$

$$\boxed{270.7}$$



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$$\frac{392}{285} \times 100\%$$

137.5%

2003

$$\text{Avg} = \frac{1425}{5} = 285$$

The production of company DNR in 2003 is approximately what percent of the average production of all the companies in the year 2003?

- ~~a) 87.4%~~ b) 137.5% c) 126.4% ~~d) 98.6%~~ e) 142.5%