gradeup

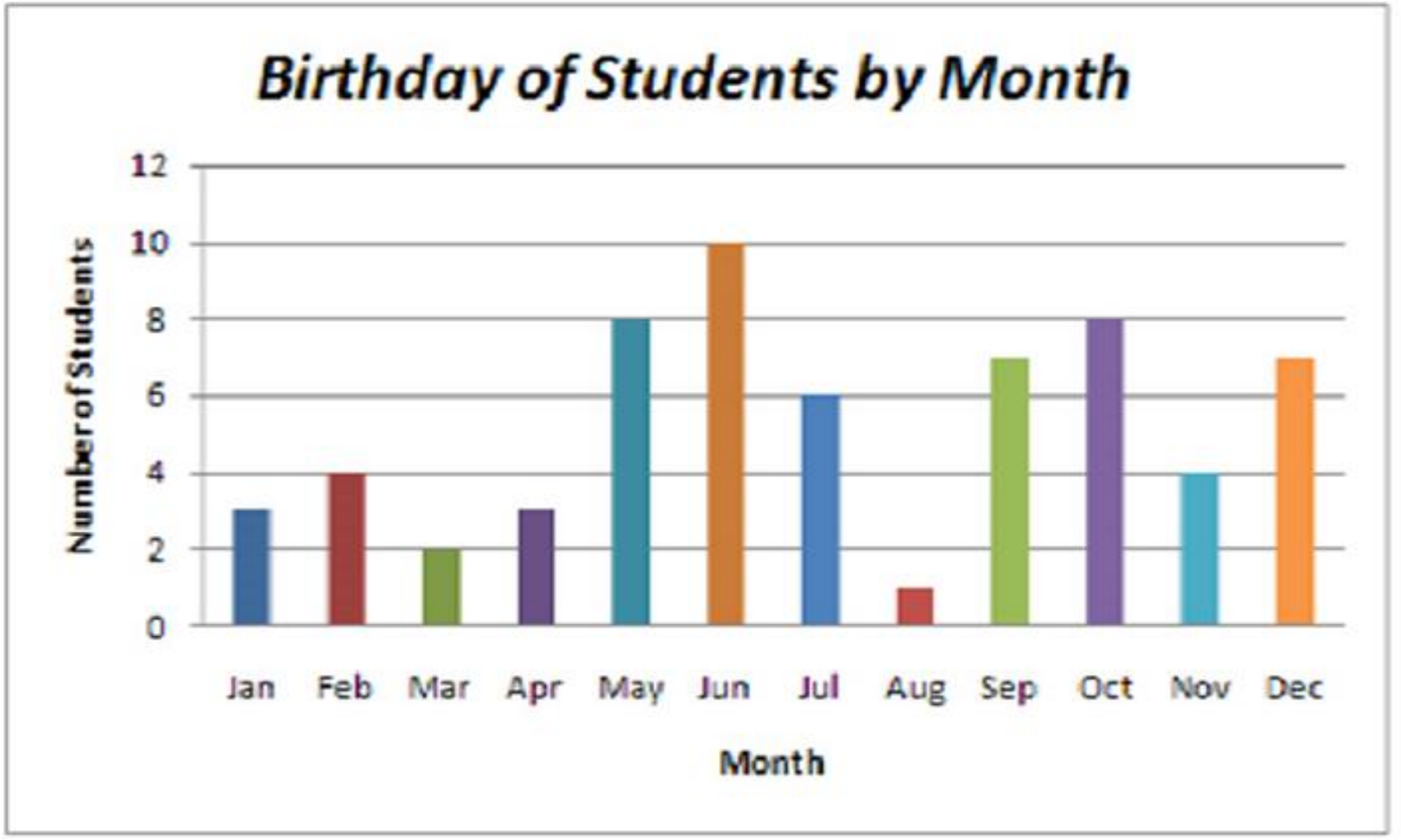
gradeup

Sahi Prep Hai Toh Life Set Hai

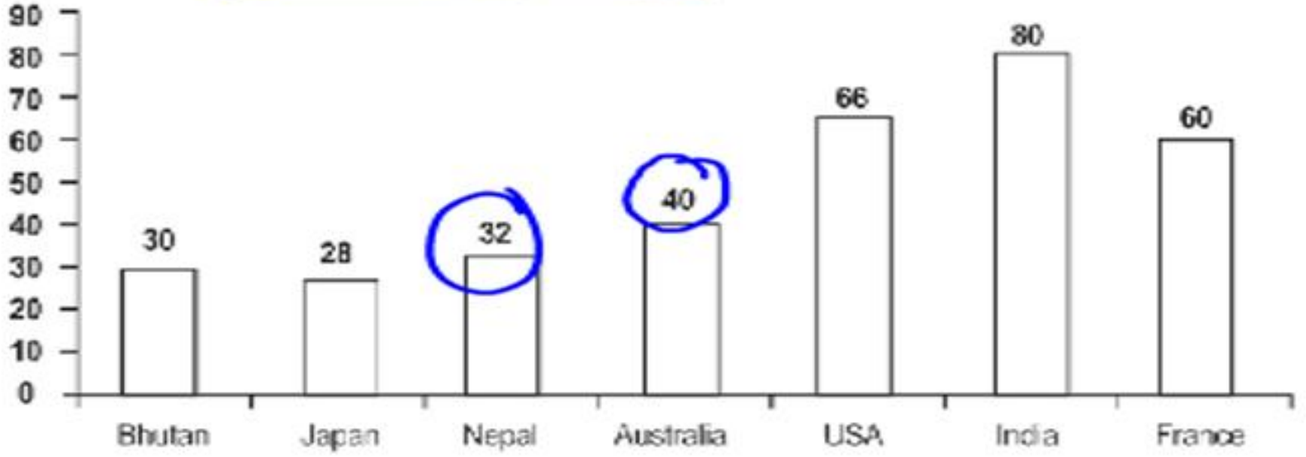
DATA INTERPRETATION

gradeup

3. BAR GRAPH



Directions (Q. 1-5) : Study the following graph carefully and answer accordingly : Birth rates of different countries



1. The birth rate of which of the following countries is 20% less than that of Australia?

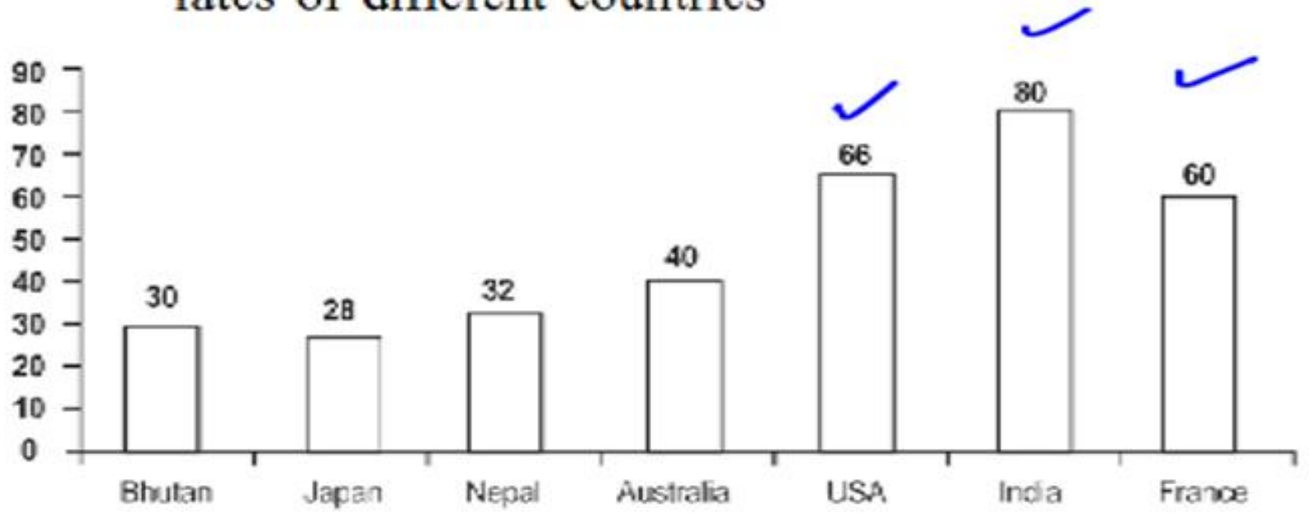
(a) France
(b) Bhutan
(c) Nepal
(d) Japan

20% of 40 → 8

gradeup

Ans. (c)

Directions (Q. 1-5) : Study the following graph carefully and answer accordingly : Birth rates of different countries



2. The ratio of the number of countries having higher birth rate to the number of countries having lower birth rate than average is:

(a) 4:3
(b) 2:5
(c) 5:2
(d) None of these

30, 28, 32, 40, 66, 80, 60

$\frac{336}{7} = 48$

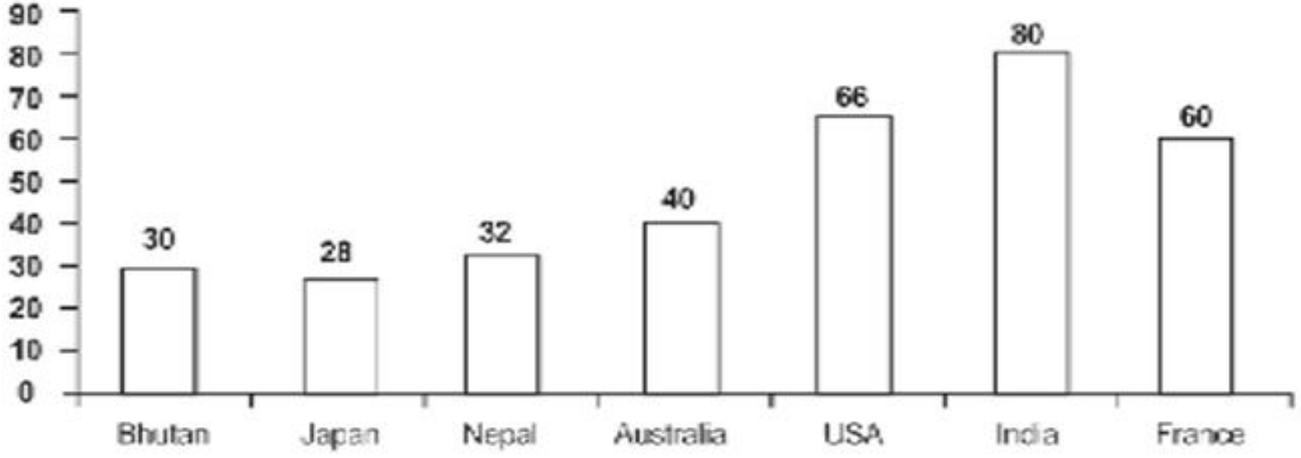
Higher Lower

3 : 4

gradeup

Ans. (d)

Directions (Q. 1-5) : Study the following graph carefully and answer accordingly : Birth rates of different countries



3. The average birth rate is by what per cent greater or lower than the birth rate of Australia?

(a) 20% greater (b) 20% lower

(c) $16\frac{2}{3}$% greater (d) $16\frac{2}{3}$% lower

Average

48

Australia

40

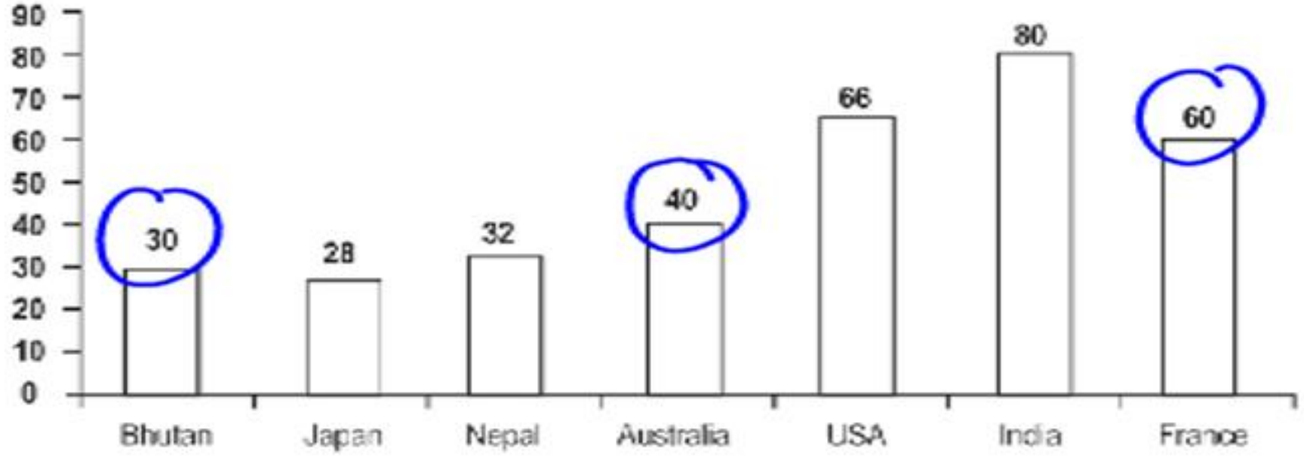
$\frac{8}{40} \times 100$

$= 20\%$

gradeup

Ans. (a)

Directions (Q. 1-5) : Study the following graph carefully and answer accordingly : Birth rates of different countries



4. The pair of the birth rates of which of the following countries is equal?

(a) Australia and Bhutan ; India

(b) France and Australia ; India and Bhutan

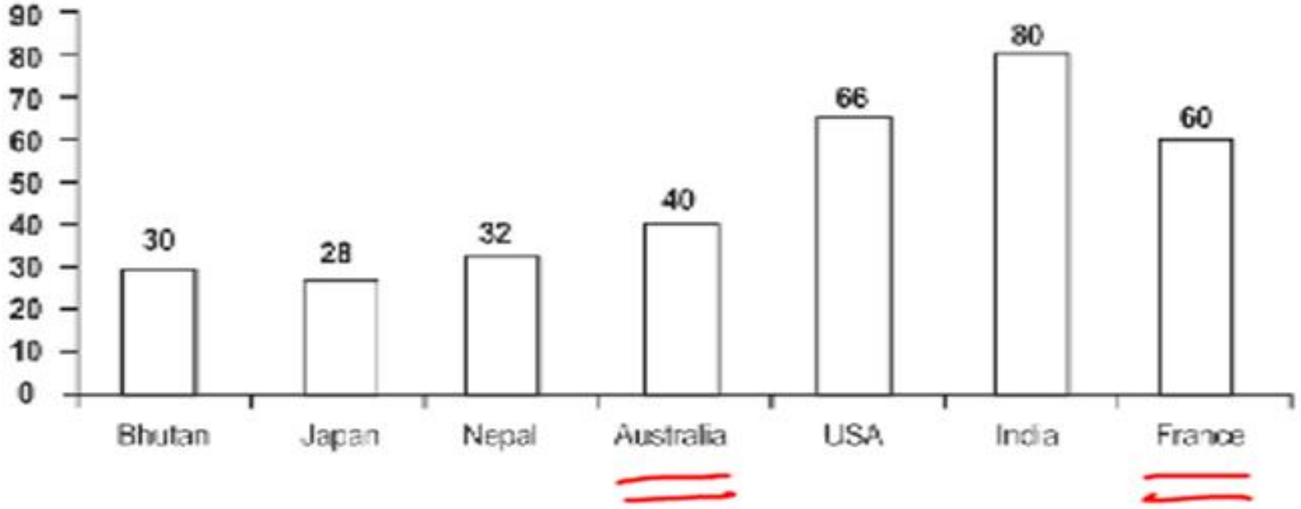
(c) USA ; Australia and Japan

(d) Japan and Nepal ; France

gradeup

Ans. (d)

Directions (Q. 1-5) : Study the following graph carefully and answer accordingly : Birth rates of different countries



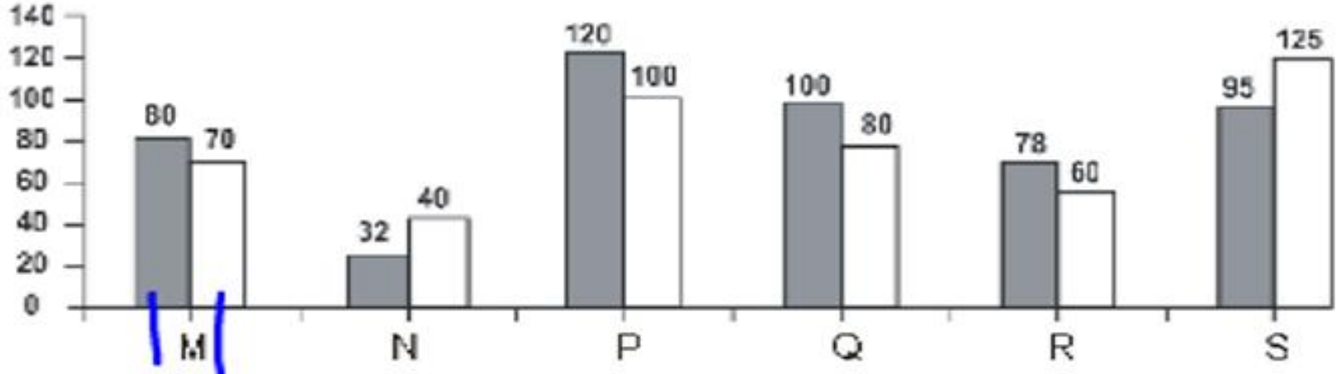
5. The sum of the birth rates of Australia and France is how many times the sum of the birth rates of India and Bhutan?

(a) 1.1
(b) 0.91
(c) 0.83
(d) 1.25

gradeup

Ans. (b)

Directions (6 to 10): Study the following graph carefully and answer accordingly : The following graph shows the income and expenditure of six companies (in Rs. lakh) in 2001.



I E

SP CP

6. Which of the following companies had least percentage of profit/loss (consider only magnitude) in 2001?

(a) N (b) P

(c) R (d) M

N → $\frac{8}{40}$ 20% loss

P → $\frac{20}{100}$ 20% profit

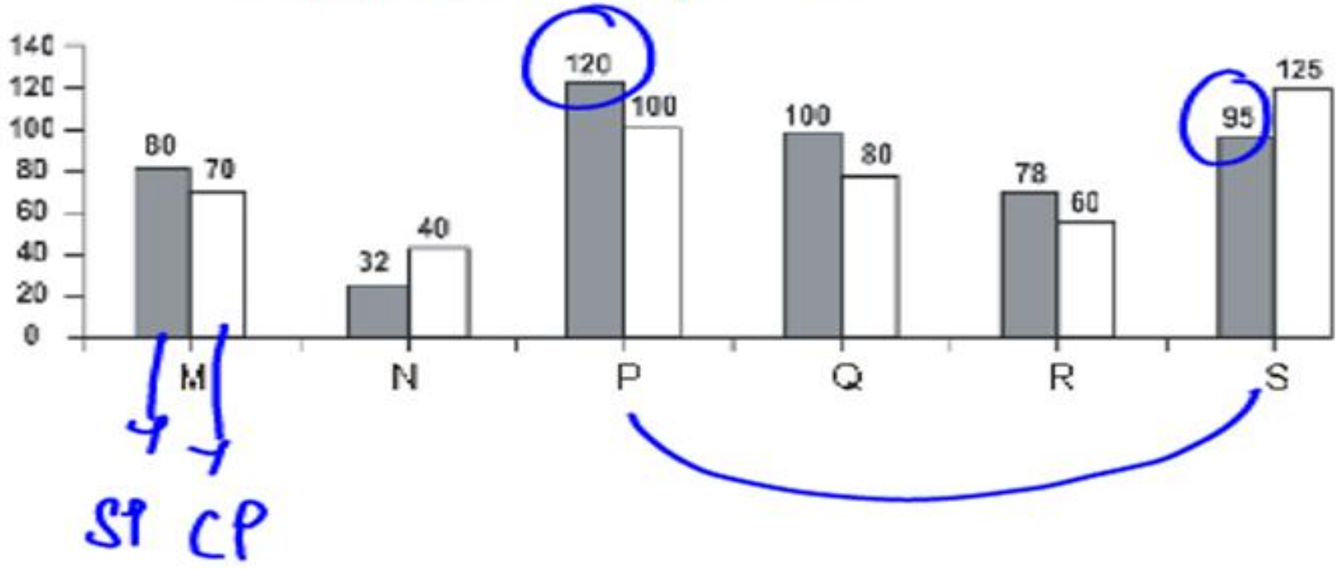
R → $\frac{18}{60} \cdot 100$ 30% profit

$\frac{10}{70} \times 100$ $14\frac{2}{7}\%$ profit

gradeup

Ans. (d)

Directions (6 to 10): Study the following graph carefully and answer accordingly : The following graph shows the income and expenditure of six companies (in Rs. lakh) in 2001.



SP CP

7. Approximately what is the percentage of profit/ loss of companies P and S together?

(a) 7% loss
(b) 5% profit
(c) 7% profit
(d) 4.44% loss

CP = 225

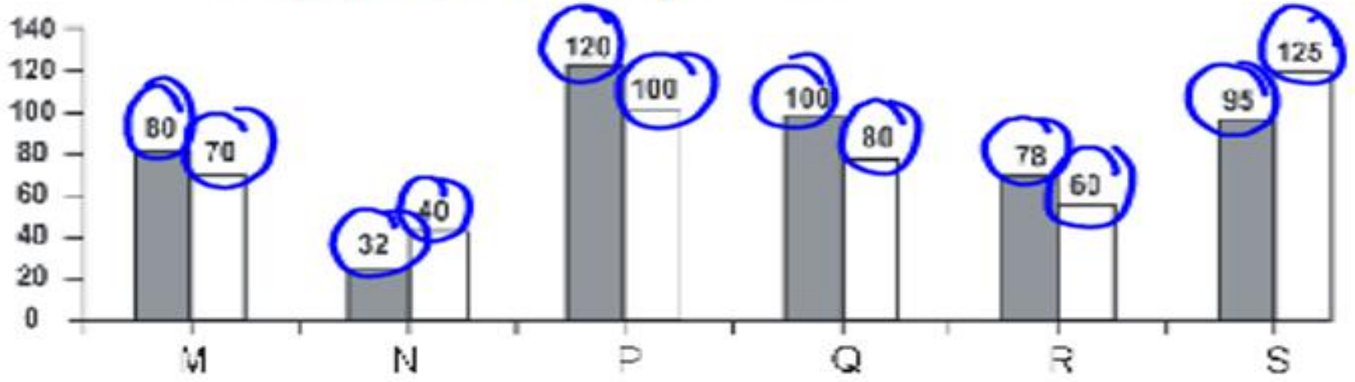
SP = 215

$\frac{10}{225} \times 100$

gradeup

Ans. (d)

Directions (6 to 10): Study the following graph carefully and answer accordingly : The following graph shows the income and expenditure of six companies (in Rs. lakh) in 2001.



8. What is percentage of profit earned by all the companies together in 2001?

(a) 6.32%
(b) 16.43%
(c) 8.42%
(d) 10.54%

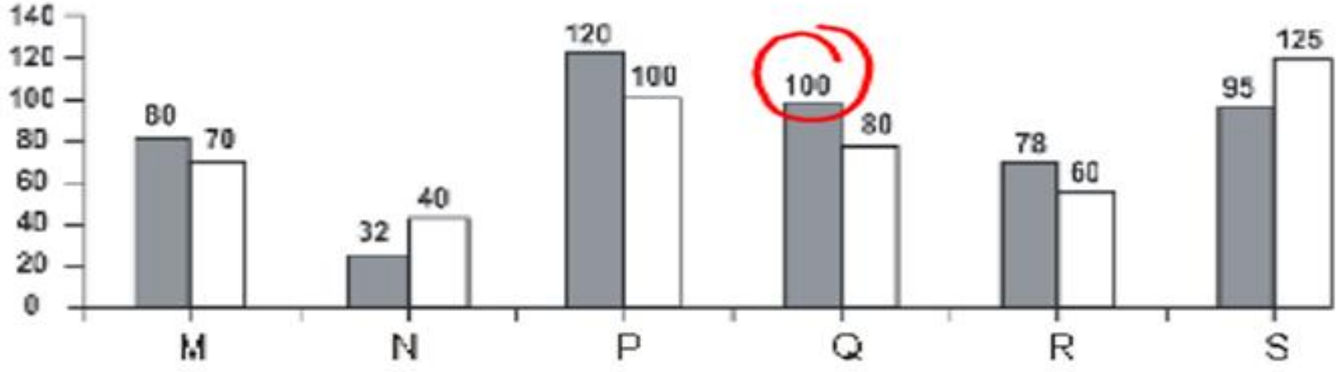
CP = 475
SP = 505

$\frac{30}{475} \times 100$

gradeup

Ans. (a)

Directions (6 to 10): Study the following graph carefully and answer accordingly : The following graph shows the income and expenditure of six companies (in Rs. lakh) in 2001.



9. If the income of company Q increased by 25% in 2001 with respect to prevous year and the profit earned in 2000 was 15%, what was the expenditure of company Q in 2000?

(a) 64.42 lakh
(b) 74.80 lakh
(c) 69.56 lakh
(d) 65 lakh

125% of $I_{Q2000} = 100$

$I_{Q2000} = 80$

Profit → 15% (3 → Profit, 20 → C)

23 → 80

$\frac{80}{23} \times 20$

gradeup

Ans. (c)

$$80 \times \frac{20}{23}$$

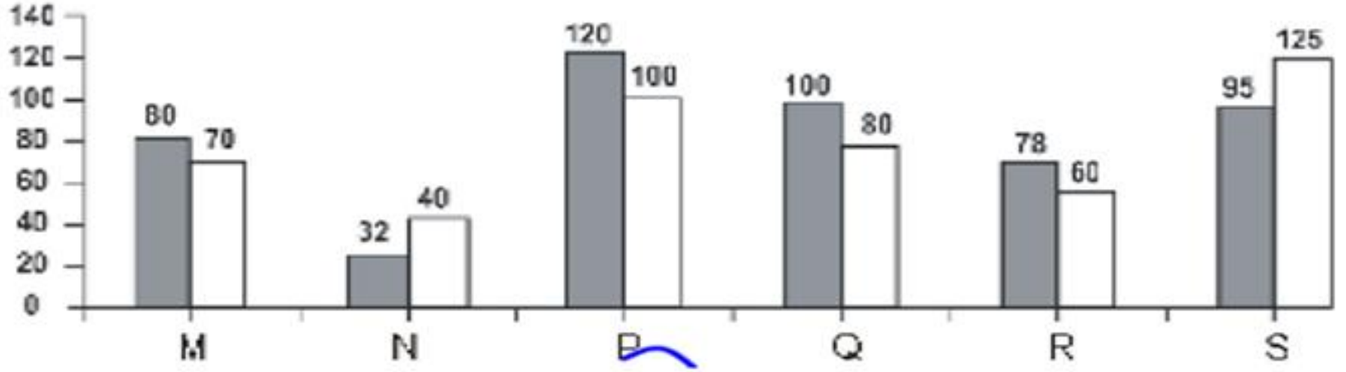
$$80\left[1 - \frac{3}{23}\right]$$

$$80 - \frac{240}{23}$$

$$80 - 10.\overline{4}$$

$$69.\overline{5}$$

Directions (6 to 10): Study the following graph carefully and answer accordingly : The following graph shows the income and expenditure of six companies (in Rs. lakh) in 2001.



10. Which of the following two companies profit/loss (consider only magnitude) is the same in 2001 in precentage terms?

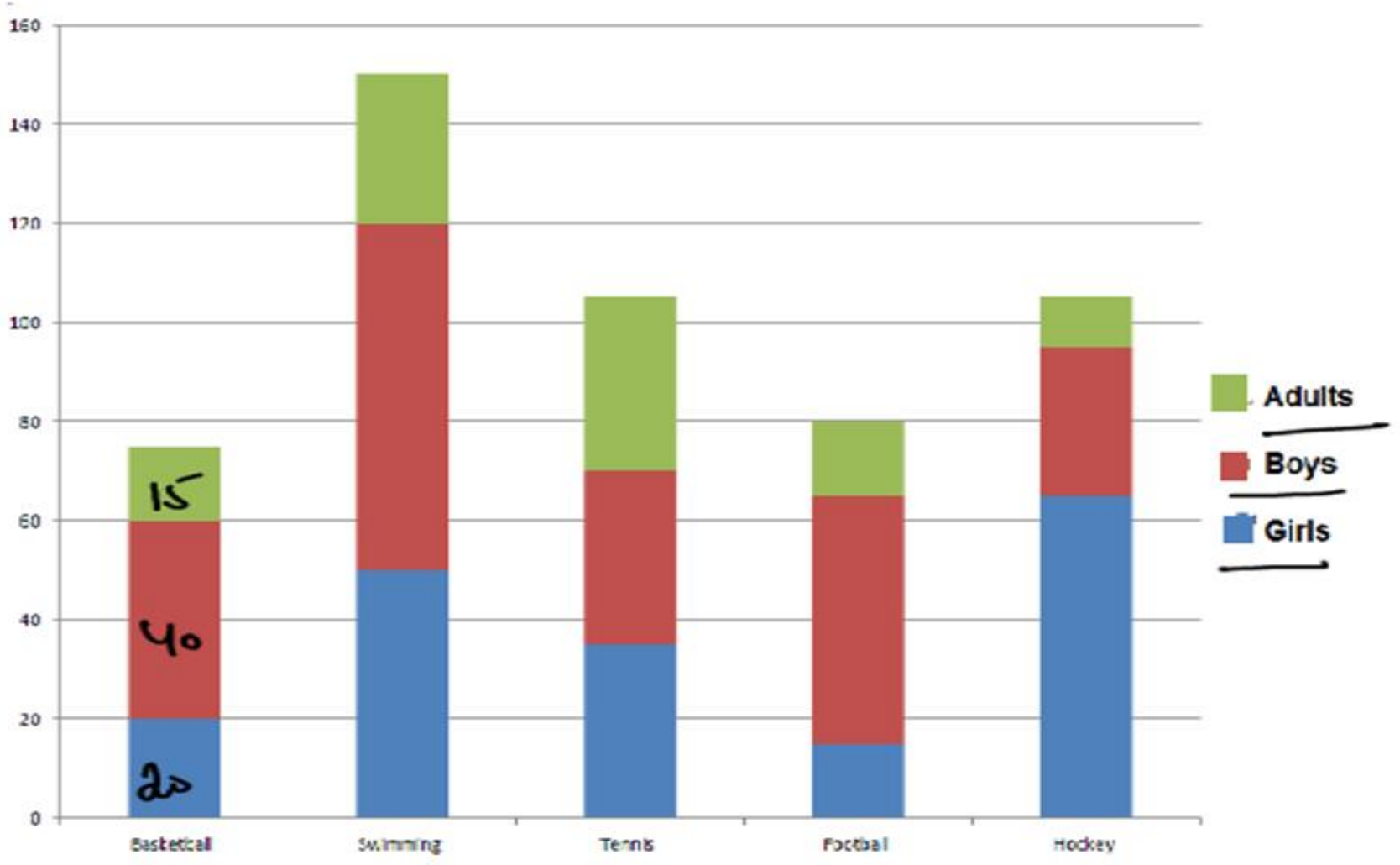
(a) M-N
(b) N-P
(c) Q-R
(d) Q-S

gradeup

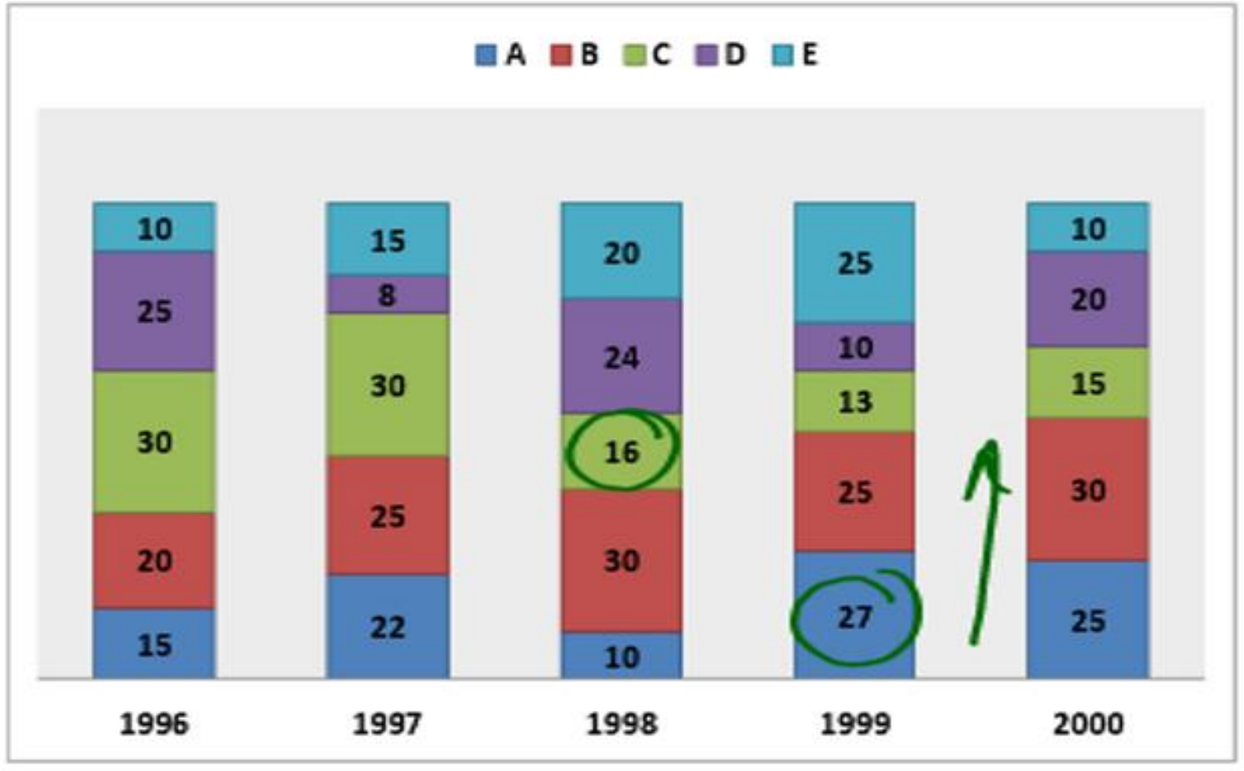
Ans. (b)

gradeup

4. CUMULATIVE BAR GRAPH



Directions (Q. 1-5) : Study the following graph carefully and answer accordingly : The following graph shows the percentage of different types of cars produced by the company during five years. Total number of cars produced by the company in 1996, 1997, 1998, 1999 and 2000 are 20000, 18000, 25000, 22000, and 28000 respectively.



20K 18K 25K 22K 28K

1. What was the difference between the production of A type cars in 1999 and that if C type in 1998?

(a) 2050 (b) 2940
(c) 2190 (d) 1940

$A_{1999} - C_{1998}$

$27\% \text{ of } 22000 - 16\% \text{ of } 25000$

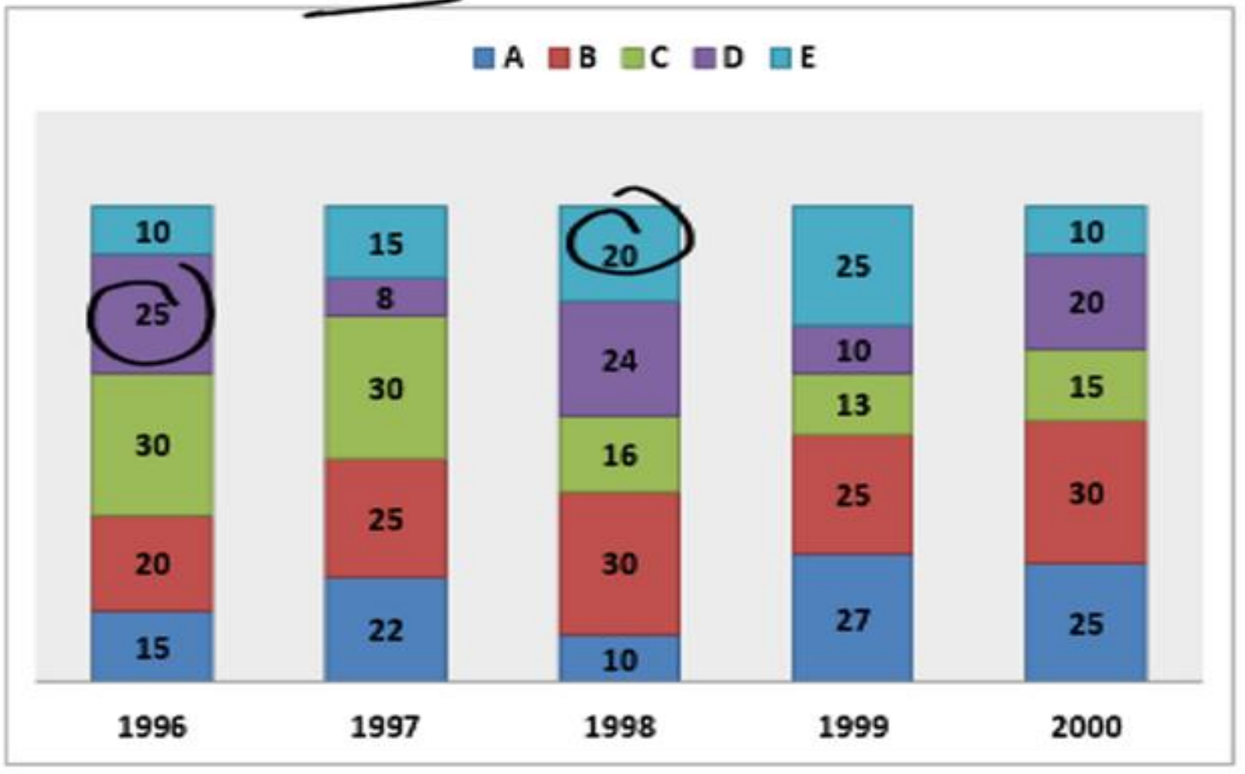
$5940 - 4000$

$= 1940$

gradeup

Ans. (d)

Directions (Q. 1-5) : Study the following graph carefully and answer accordingly : The following graph shows the percentage of different types of cars produced by the company during five years. Total number of cars produced by the company in 1996, 1997, 1998, 1999 and 2000 are 20000, 18000, 25000, 22000, and 28000 respectively.



2. Number of D type cars produced in 1996 is equal to that of which type of cars produced in 1998?

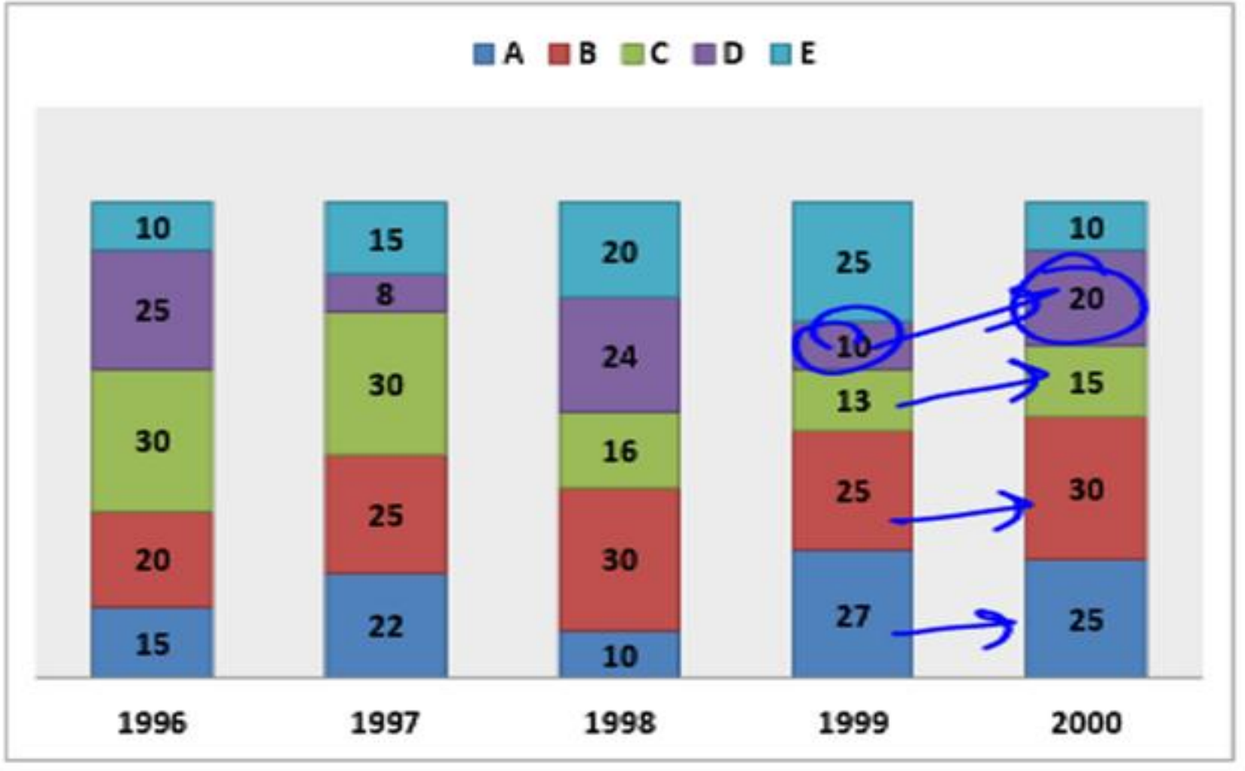
(a) C (b) A
(c) B (d) E

25% of 20000 = 5000

gradeup

Ans. (d)

Directions (Q. 1-5) : Study the following graph carefully and answer accordingly : The following graph shows the percentage of different types of cars produced by the company during five years. Total number of cars produced by the company in 1996, 1997, 1998, 1999 and 2000 are 20000, 18000, 25000, 22000, and 28000 respectively.



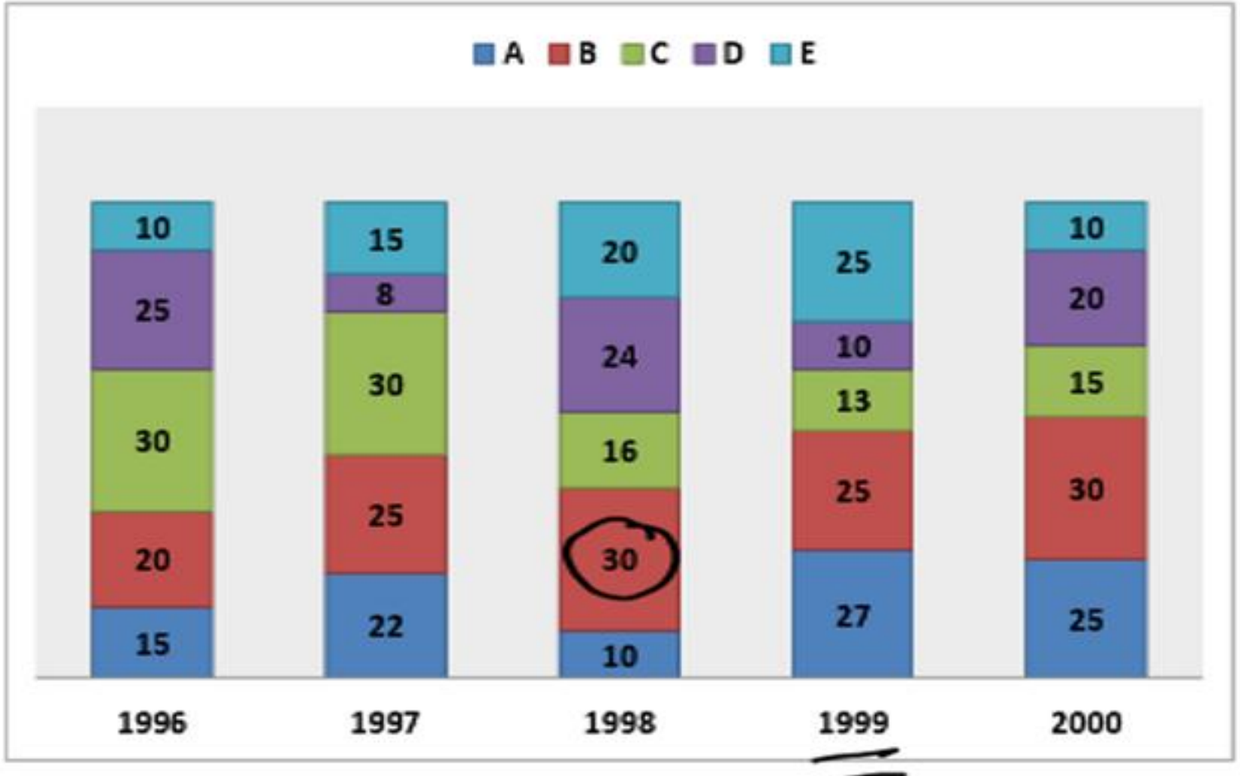
3. In the case of which of the following types of cars was the percentage increase from 1999 to 2000 the maximum?

(a) D
(b) E
(c) A
(d) B

gradeup

Ans. (a)

Directions (Q. 1-5) : Study the following graph carefully and answer accordingly : The following graph shows the percentage of different types of cars produced by the company during five years. Total number of cars produced by the company in 1996, 1997, 1998, 1999 and 2000 are 20000, 18000, 25000, 22000, and 28000 respectively.



4. If the number of B type cars manufactured in 1999 were the same as that in 1998, what would be the approximate percentage share of B type in the total production of 1999?

(a) 30%
(b) 25%
(c) 35%
(d) 40%

30% of 25000

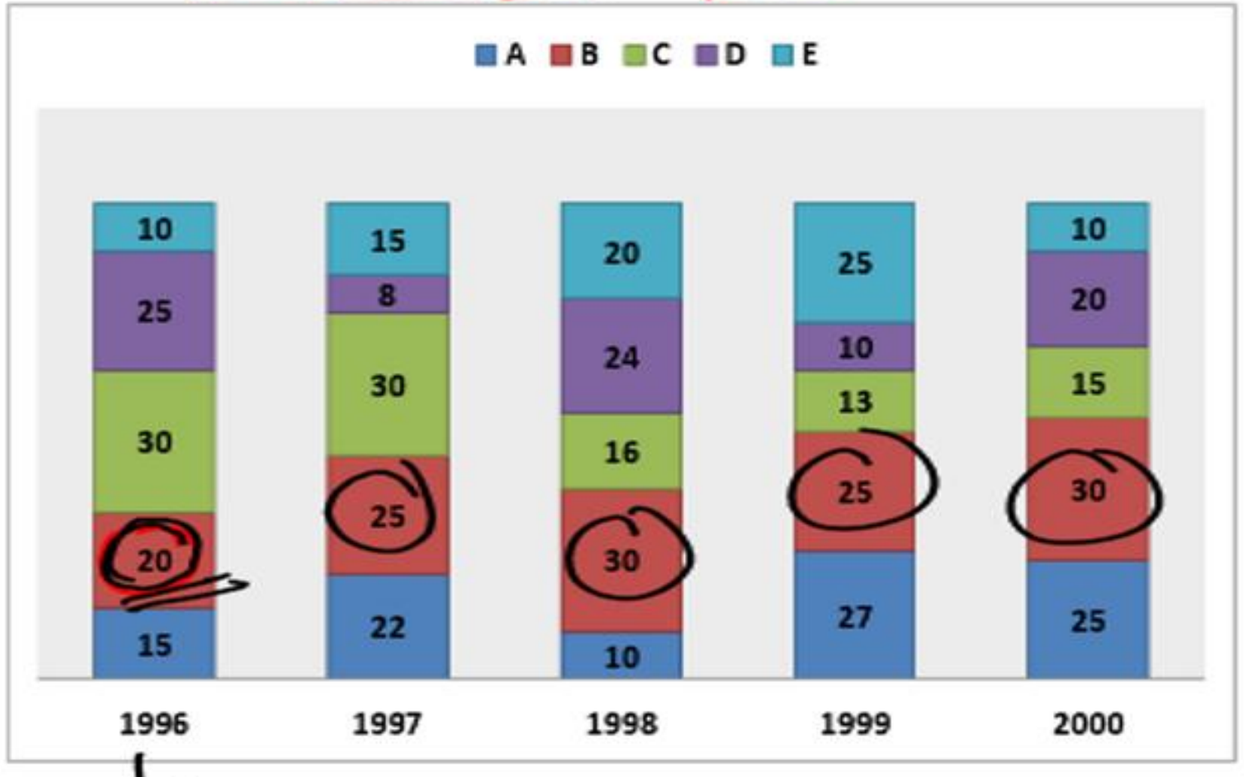
$\frac{7500}{22000} \times \frac{5}{100}$

$\frac{375}{11} = 34.$

gradeup

Ans. (c)

Directions (Q. 1-5) : Study the following graph carefully and answer accordingly : The following graph shows the percentage of different types of cars produced by the company during five years. Total number of cars produced by the company in 1996, 1997, 1998, 1999 and 2000 are 20000, 18000, 25000, 22000, and 28000 respectively.



5. If 90% of B type cars produced in all the given years are being sold by the company, then how many B type cars are left unsold by the company?

(a) 3010
(b) 2890
(c) 3270
(d) 2990

2% of 20000 = 400
2.5% of 18000 = 450
3% of 25000 = 750
2.5% of 22000 = 550
3% of 28000 = 840

gradeup

Ans. (d)

gradeup

5. PIE CHART

Income of a person = Rs. 90,000

Rent → 90000 − 9000 − 23400 − 21600 − 18000

= 18000

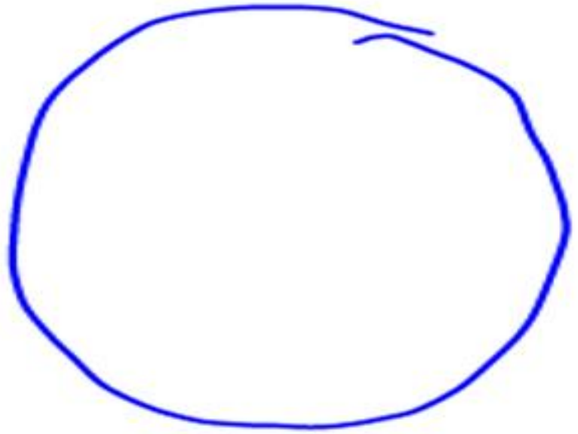
gradeup

Eg1. Savings is what % of total income?

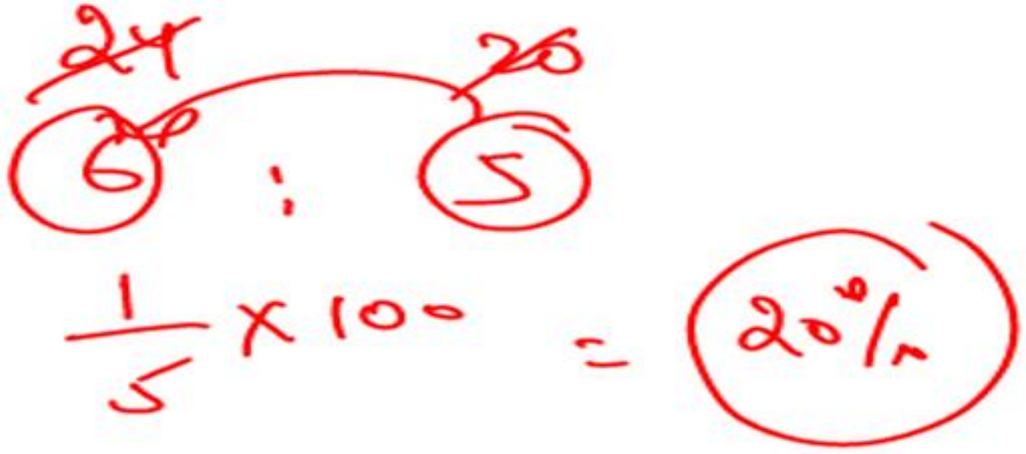
Savings → 100% − 10 − 20 − 20 − 24

→ 26%

Eg2. Amount spent on food is what % more than the amount spent on education?



→ 360°



gradeup

Degree → %

$100\% = 360^\circ$

$1\% \rightarrow 3.6^\circ$

$10\% \rightarrow 36^\circ$

$2\% \rightarrow 7.2^\circ$

$20\% \rightarrow 72^\circ$

$3\% \rightarrow 10.8^\circ$

$30\% \rightarrow 108^\circ$

$4\% \rightarrow 14.4^\circ$

$40\% \rightarrow 144^\circ$

$5\% \rightarrow 18^\circ$

$50\% \rightarrow 180^\circ$

% → Degree

$6\% \rightarrow 21.6^\circ$

$60\% \rightarrow 216^\circ$

$7\% \rightarrow 25.2^\circ$

$70\% \rightarrow 252^\circ$

$8\% \rightarrow 28.8^\circ$

$80\% \rightarrow 288^\circ$

$9\% \rightarrow 32.4^\circ$

$90\% \rightarrow 324^\circ$

$10\% \rightarrow 36^\circ$

$100\% \rightarrow 360^\circ$

gradeup

21% of 360° → 72° + 3.6° = 75.6°

32% of 360° → 108° + 7.2 = 115.2°

41% of 360° → 144 + 3.6 = 147.6°

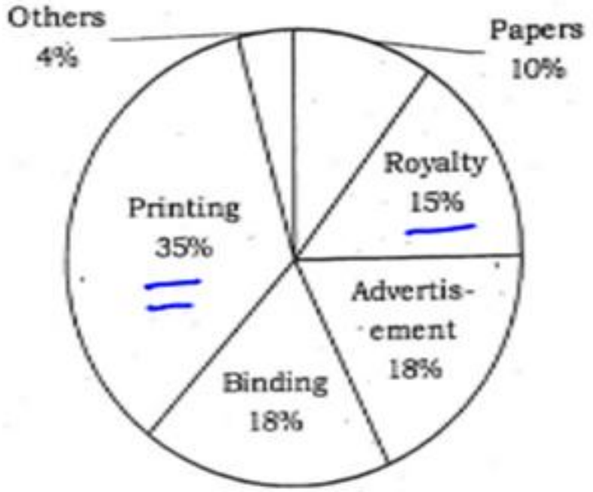
53% of 360° → 180 + 10.8 = 190.8°

69% of 360 → 252 - 3.6 = 248.4°

38% of 360° → 144 - 7.2 = 136.8°

Directions (Q.1–5) : Study the following chart carefully and answer the questions given below it:

Expenditure incurred in publication and sales of books



1. If printing expenses was `24500, then what was the expenditure on royalty?

(a) `8750 (b) `10500

(c) `9500 (d) `12000

35% → 24500

1% → 700

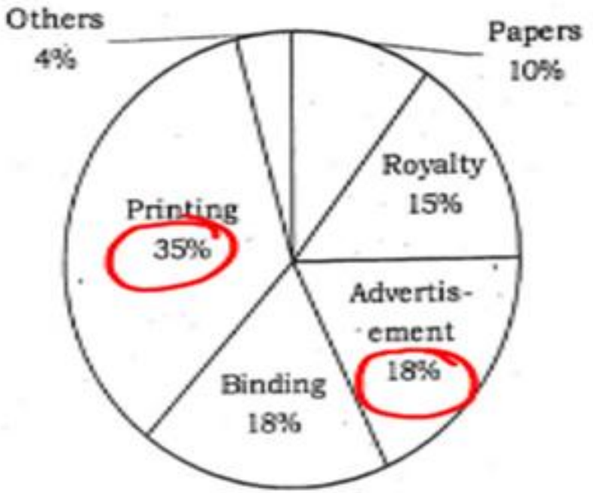
15% → 10500

gradeup

Ans. (b)

Directions (Q.1–5) : Study the following chart carefully and answer the questions given below it:

Expenditure incurred in publication and sales of books



2. The central angle of the sector of printing expenditure is how much larger than the angle of the sector of advertisement expenditure?

(a) 61.2° (b) 70°
(c) 54.8° (d) 72°

17% of 360

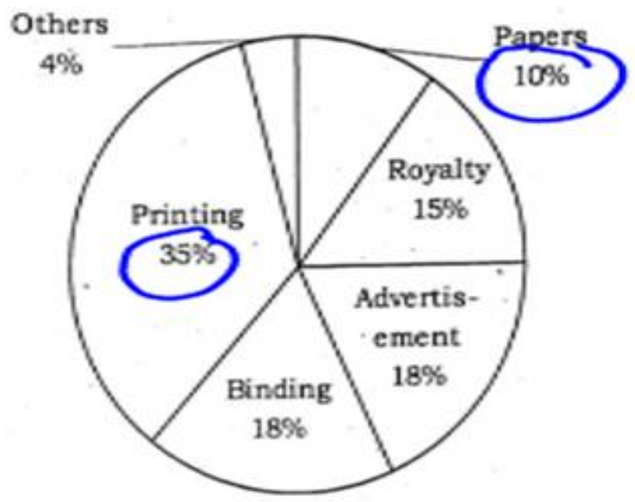
72 − 10·8

gradeup

Ans. (a)

Directions (Q.1–5) : Study the following chart carefully and answer the questions given below it:

Expenditure incurred in publication and sales of books



3. The paper cost is **approximately** what per cent of the printing expenditure?

(a) 25.2% (b) 30%

(c) 28.6% (d) 32.5%

$\frac{2}{7}\frac{10}{35} \times 100$

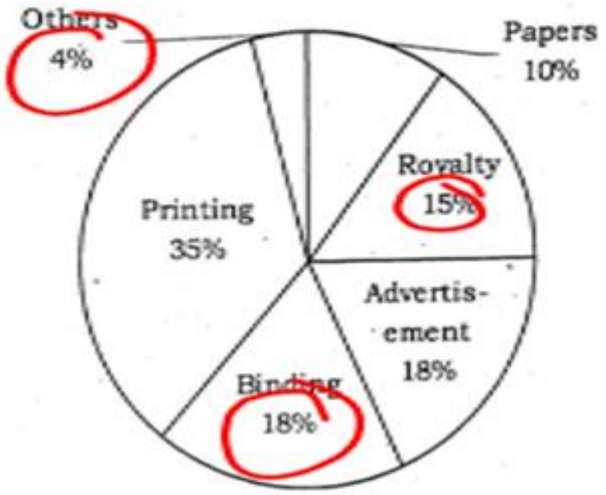
28.56%

gradeup

Ans. (c)

Directions (Q.1–5) : Study the following chart carefully and answer the questions given below it:

Expenditure incurred in publication and sales of books



4. If other expenditure is `8000, then binding expenditure is how much more than royalty?

(a) `9750 (b) `6500

(c) `8000 (d) `6000

4% → 800

1% → 200

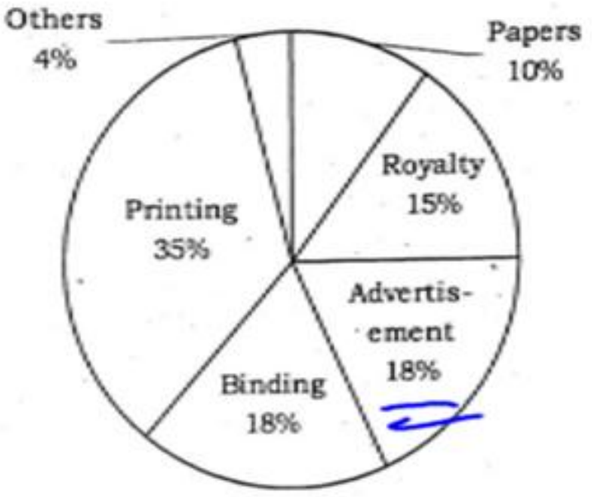
3%

gradeup

Ans. (d)

Directions (Q.1–5) : Study the following chart carefully and answer the questions given below it:

Expenditure incurred in publication and sales of books



5. What is the central angle for the sector of advertisement?

(a) 90° (b) 45°

(c) 76° (d) 64.8°

$18\% \text{ of } 360°$

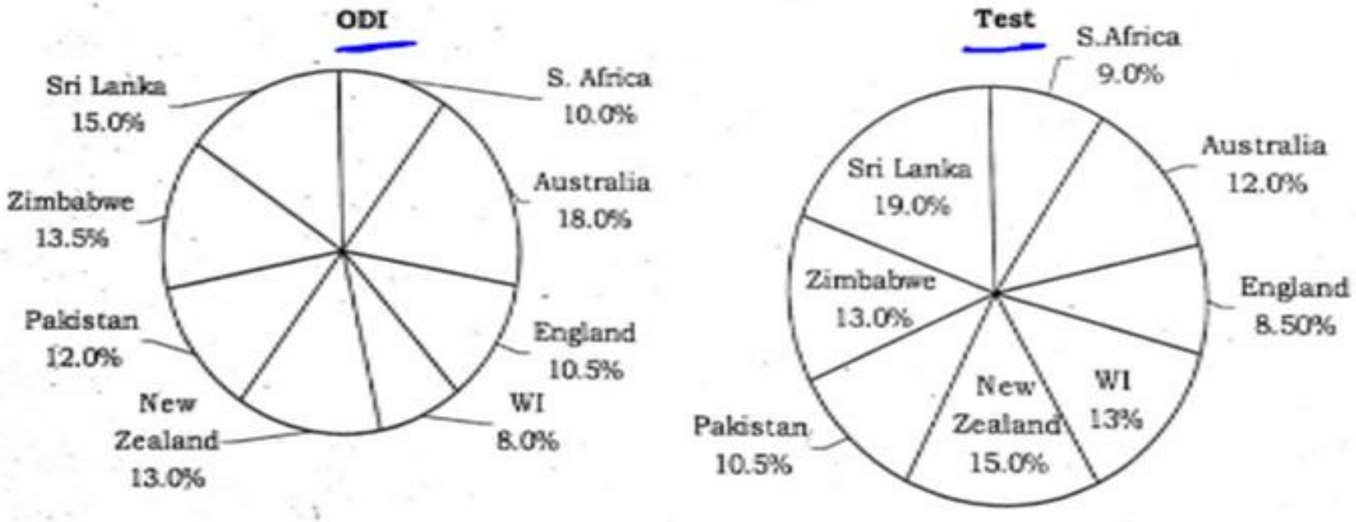
$\frac{18}{100} \times 360$

gradeup

Ans. (d)

Directions (Q.6–10) : Study the following graph and answer accordingly:
The following pie-charts show the runs scored by a batsman against different countries in one-day internationals (ODI) and Test matches.

Runs scored by the batsman in ODI and Test matches are 11000 and 9000 respectively.



11000 9000

6. Runs scored by the batsman against Pakistan in Test matches is **approximately** what percentage of the runs scored against South Africa in ODI?

(a) 80% (b) 95%
(c) 85% (d) 90%

21 ~~10~~ 5% of 9000 5 × ~~100~~

~~20~~ ~~100%~~ of 11000

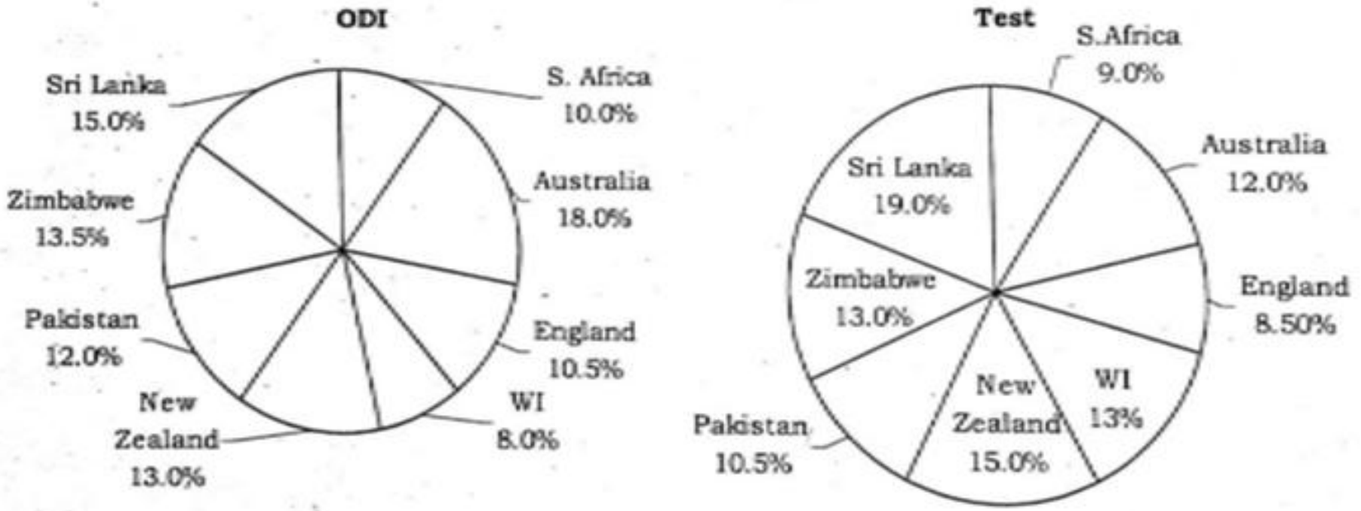
$\frac{945}{11}$ 86

gradeup

Ans. (c)

Directions (Q.6–10) : Study the following graph and answer accordingly:
The following pie-charts show the runs scored by a batsman against different countries in one-day internationals (ODI) and Test matches.

Runs scored by the batsman in ODI and Test matches are 11000 and 9000 respectively.



9000

7. If the batsman had scored 900 runs against South Africa in Test matches, what would have been its percentage in the Test match pie (the total runs scored in Tests remaining the same)?

(a) 20% (b) 19%
(c) 9% (d) None of these

$\frac{900}{9000} \times 100$

10

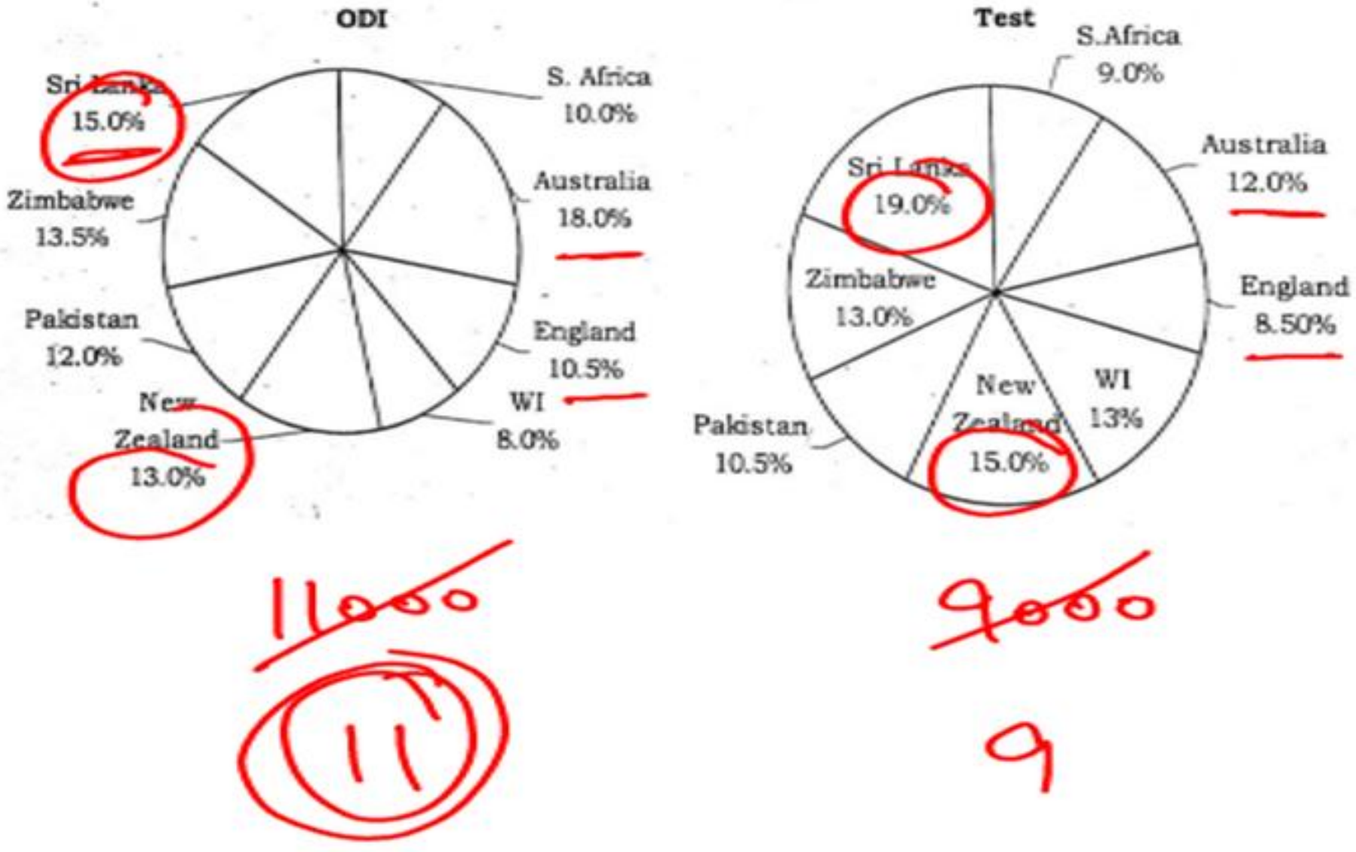
= 10%

gradeup

Ans. (d)

Directions (Q.6–10) : Study the following graph and answer accordingly:
The following pie-charts show the runs scored by a batsman against different countries in one-day internationals (ODI) and Test matches.

Runs scored by the batsman in ODI and Test matches are 11000 and 9000 respectively.



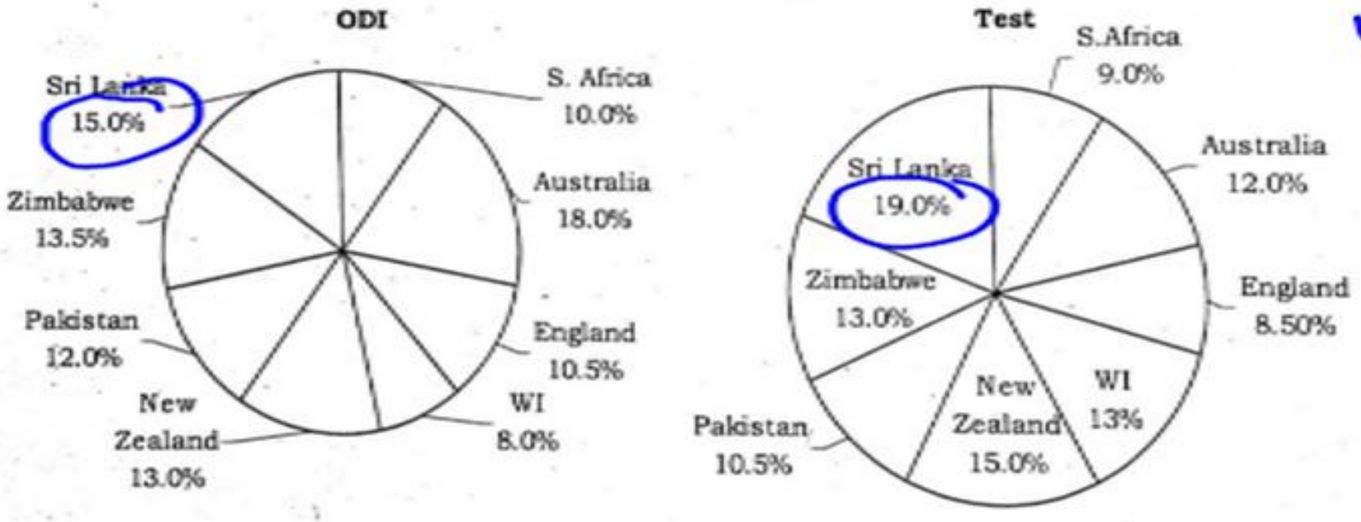
8. In the case of which of the following countries was there minimum difference in runs scored in ODI and that in Test matches?
(a) Australia (b) England
(c) Sri Lanka (d) New Zealand

gradeup

Ans. (c)

Directions (Q.6–10) : Study the following graph and answer accordingly:
The following pie-charts show the runs scored by a batsman against different countries in one-day internationals (ODI) and Test matches.

Runs scored by the batsman in ODI and Test matches are 11000 and 9000 respectively.



9. Find the difference in the runs scored by the batsman in Test matches and that in ODI against Sri Lanka.

(a) 60 (b) 80
(c) 120 (d) 40

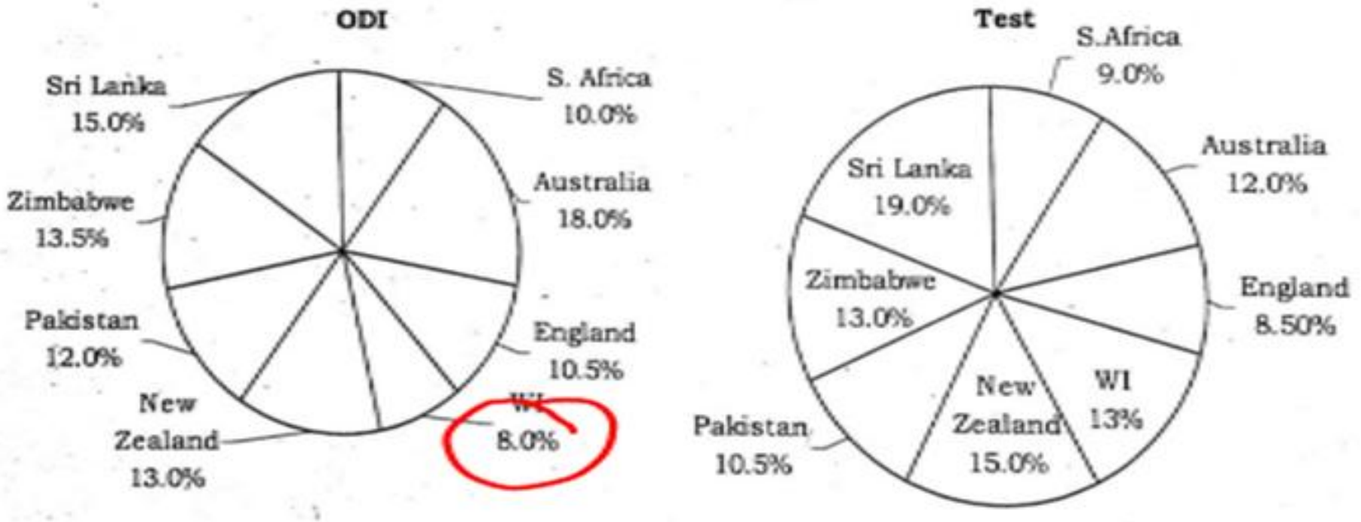
15% of 11000 = 1650
19% of 9000 = 1710

gradeup

Ans. (a)

Directions (Q.6–10) : Study the following graph and answer accordingly:
The following pie-charts show the runs scored by a batsman against different countries in one-day internationals (ODI) and Test matches.

Runs scored by the batsman in ODI and Test matches are 11000 and 9000 respectively.



11000

10. If the batsman played 25 innings against WI in ODI and remained not out in 3 innings, find his average runs scored against WI in ODI.

(a) 31.42 (b) 40
(c) 53.18 (d) 13.18

22 innings

Runs → 880

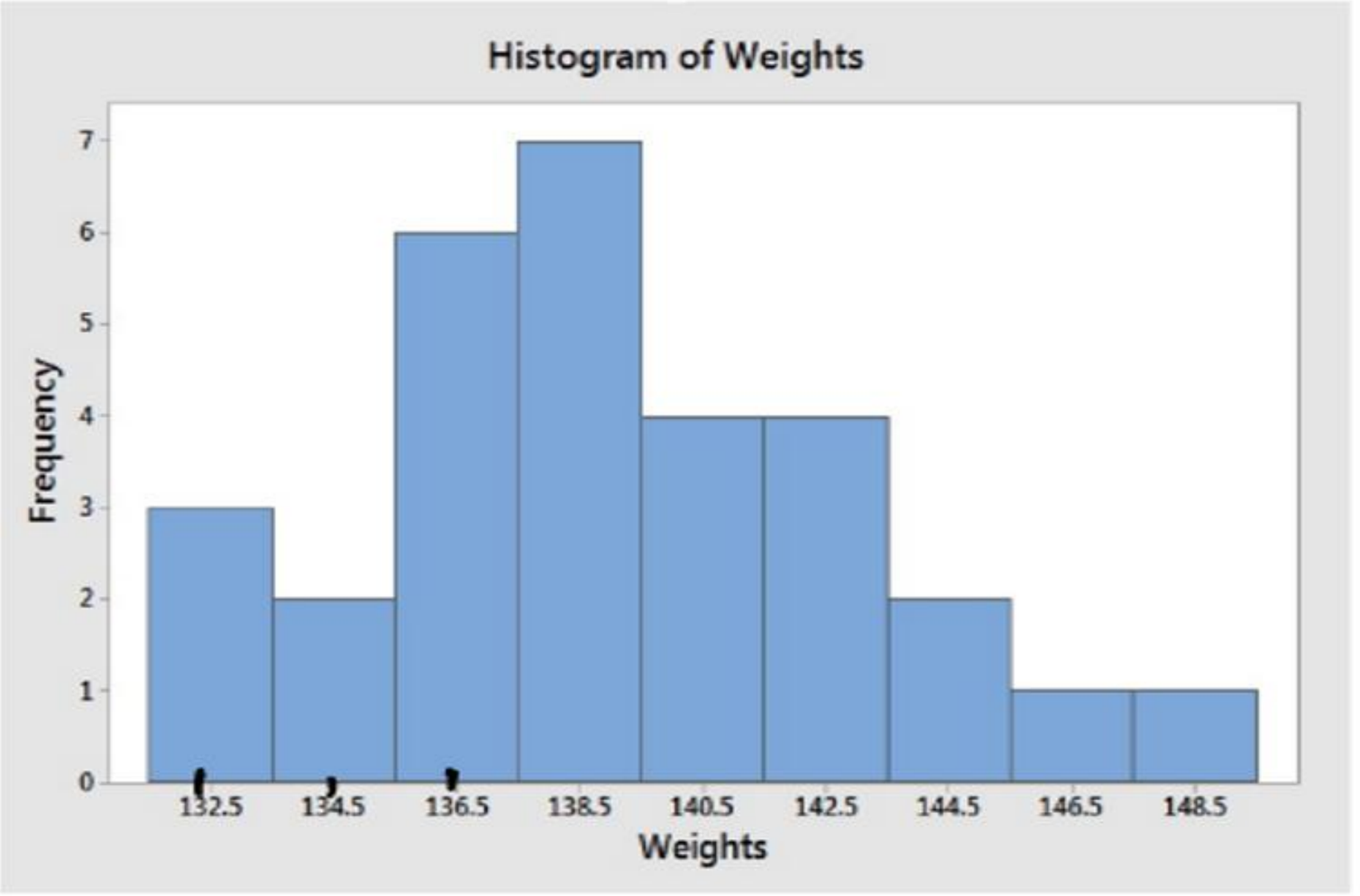
$\frac{880}{22} = 40$

gradeup

Ans. (b)

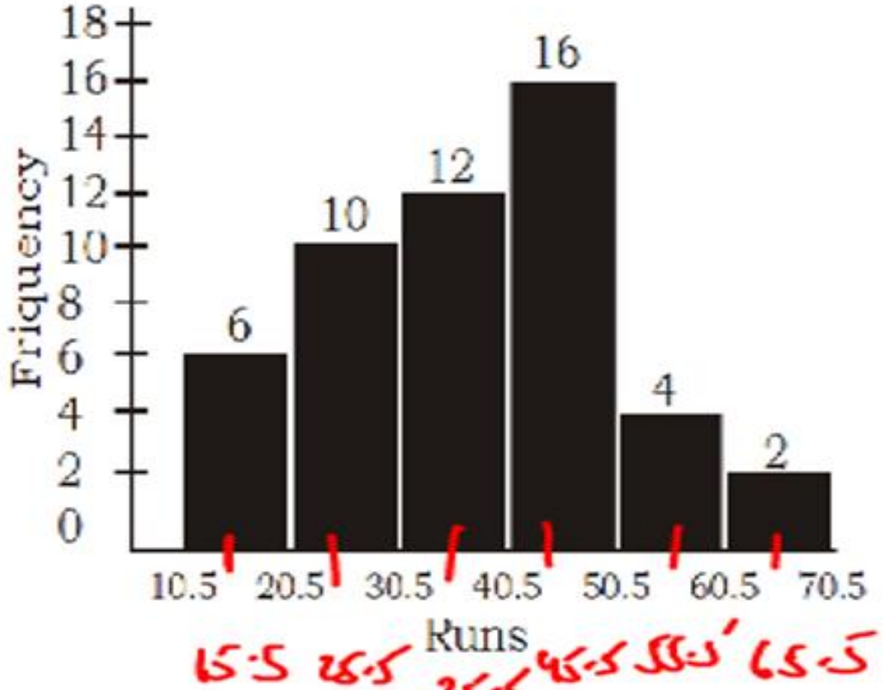
gradeup

6. HISTOGRAM



gradeup

The given histogram represents the frequency distribution of average runs scored by 50 selected players from a district in a local cricket tournament.



15·5 25·5 35·5 45·5 55·5 65·5

Q. What is the overall average score 50 players?

(a) 32.6 (b) 29.3

(c) 37.1 (d) 38.5

15·5	6	−20	−120
25·5	10	−10	−100
35·5	12	0	0
45·5	16	10	160
55·5	4	20	80
65·5	2	30	60

$\frac{80}{50} = 1.6$

gradeup

Ans. (c)

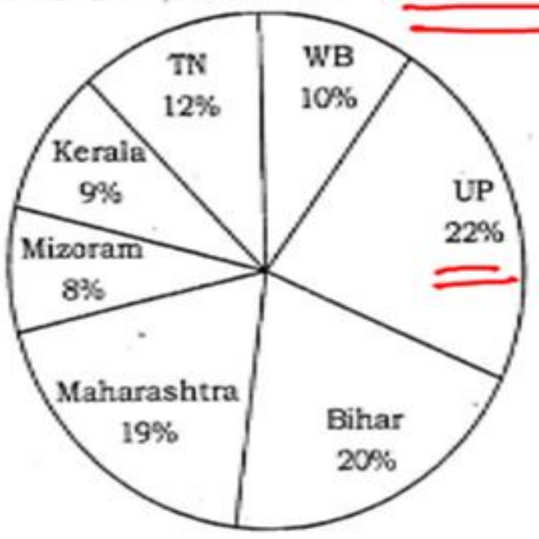
gradeup

7. MIXED GRAPH

Directions (Q.1–5) : Study the graph and answer the following questions.
Following pie chart shows the number of people in different states.

State	Sex	Literacy
	M : F	Literate : Illiterate
UP	6 : 5	3 : 8
Bihar	5 : 3	2 : 5
Maharashtra	6 : 7	4 : 1
West Bengal (WB)	3 : 4	3 : 2
Tamil Nadu	4 : 3	3 : 1
Kerala	3 : 4	7 : 2
Mizoram	1 : 2	2 : 1

Total population in 2011 = 500 million



1. What is the total number of illiterate people in UP and Kerala together?

(a) 90 millions (b) 110 millions
(c) 120 millions (d) 125 millions

Ill UP → $\frac{22}{100} \cdot 500 \cdot \frac{8}{11}$ → 80 millions

Ill Kerala → $\frac{9}{100} \cdot 500 \cdot \frac{2}{9}$ → 10 millions

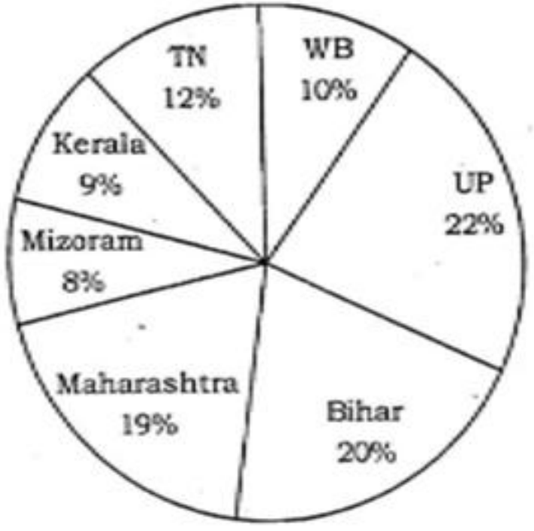
gradeup

Ans. (a)

Directions (Q.1–5) : Study the graph and answer the following questions.
Following pie chart shows the number of people in different states.

State	Sex	Literacy
	M : F	Literate : Illiterate
UP	6 : 5	3 : 8
Bihar	5 : 3	2 : 5
Maharashtra	6 : 7	4 : 1
West Bengal (WB)	3 : 4	3 : 2
Tamil Nadu	4 : 3	3 : 1
Kerala	3 : 4	7 : 2
Mizoram	1 : 2	2 : 1

Total population in 2011 = 500 million



2. Total illiterate in Tamil Nadu is what % of the total literate in Maharashtra?

(a) 25%
(b) 27%
(c) 30.35%
(d) 19.73%

$$\frac{\frac{1}{4} \cdot 12}{\frac{4}{5} \cdot 19} = \frac{3 \cdot 5 \times 100}{4 \cdot 19}$$

$$\frac{375}{19} = 19.\overline{}$$

gradeup

Ans. (d)

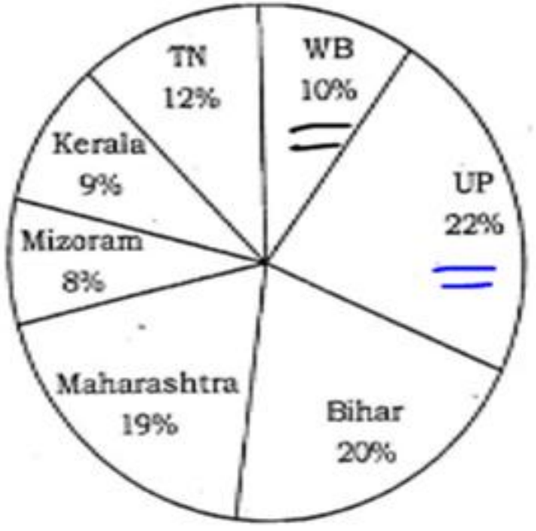
gradeup

Directions (Q.1–5) : Study the graph and answer the following questions.

Following pie chart shows the number of people in different states.

State	Sex	Literacy
	M : F	Literate : Illiterate
UP	6 : 5	3 : 8
Bihar	5 : 3	2 : 5
Maharashtra	6 : 7	4 : 1
West Bengal (WB)	3 : 4	3 : 2
Tamil Nadu	4 : 3	3 : 1
Kerala	3 : 4	7 : 2
Mizoram	1 : 2	2 : 1

Total population in 2011 = 500 million



3. If the total population of WB and UP is increased by 10% and 15% respectively in comparison to the previous year, then what will be ratio of population of two states?

(a) 5 : 23
(b) 10 : 46
(c) 10 : 23
(d) 57 : 64

$10\% \times 110\%$

$22\% \times 115\%$

23

gradeup

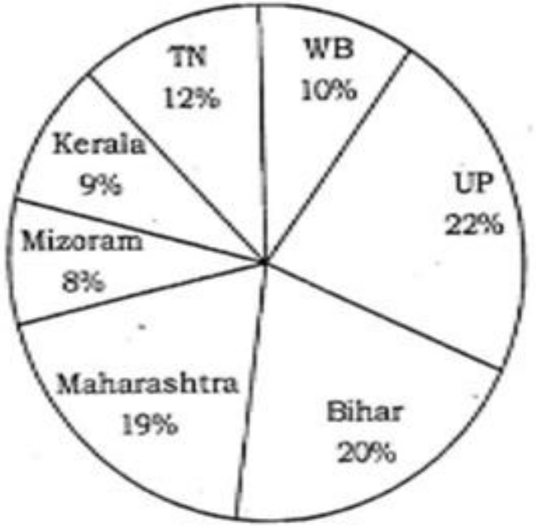
Ans. (c)

Directions (Q.1–5) : Study the graph and answer the following questions.
Following pie chart shows the number of people in different states.

State	Sex	Literacy
	M : F	Literate : Illiterate
UP	6 : 5	3 : 8
Bihar	5 : 3	2 : 5
Maharashtra	6 : 7	4 : 1
West Bengal (WB)	3 : 4	3 : 2
Tamil Nadu	4 : 3	3 : 1
Kerala	3 : 4	7 : 2
Mizoram	1 : 2	2 : 1

4. What is the **approximate** total number of male literates in West Bengal?
(a) 13 million
(b) 15 million
(c) 17 million
(d) Cannot be determined

Total population in 2011 = 500 million



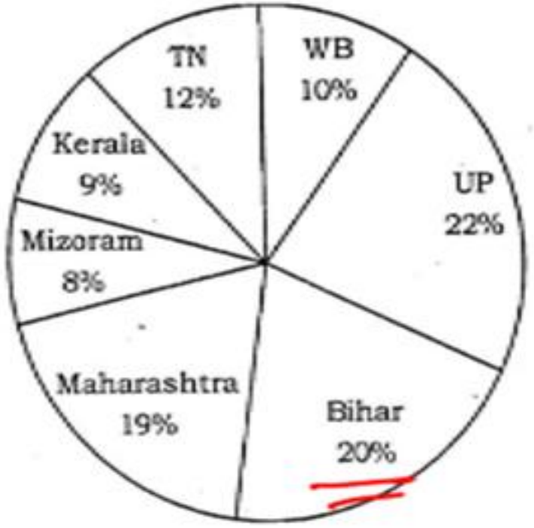
gradeup

Ans. (d)

Directions (Q.1–5) : Study the graph and answer the following questions.
Following pie chart shows the number of people in different states.

State	Sex	Literacy
	M : F	Literate : Illiterate
UP	6 : 5	3 : 8
Bihar	5 : 3	2 : 5
Maharashtra	6 : 7	4 : 1
West Bengal (WB)	3 : 4	3 : 2
Tamil Nadu	4 : 3	3 : 1
Kerala	3 : 4	7 : 2
Mizoram	1 : 2	2 : 1

Total population in 2011 = 500 million



5. What is the ratio of illiterates of Bihar to the literates of Tamil Nadu?

(a) 100 : 63
(b) 57 : 64
(c) 84 : 97
(d) 102 : 57

$$\frac{\text{Illit of Bihar}}{\text{Literate of TN}} = \frac{20 \cdot \frac{5}{7}}{12\frac{3}{7} \cdot \frac{3}{7}}$$

$$\frac{100}{79} = \frac{100}{63}$$

gradeup

Ans. (a)

gradeup

gradeup

Sahi Prep Hai Toh Life Set Hai

Practise
topic-wise quizzes

Keep attending
live classes

GET IT ON
Google Play