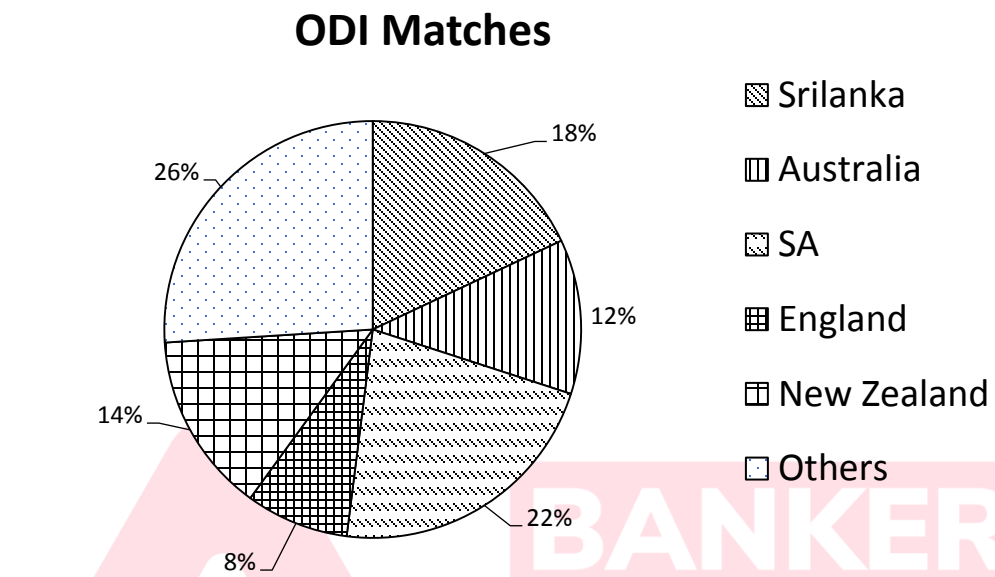
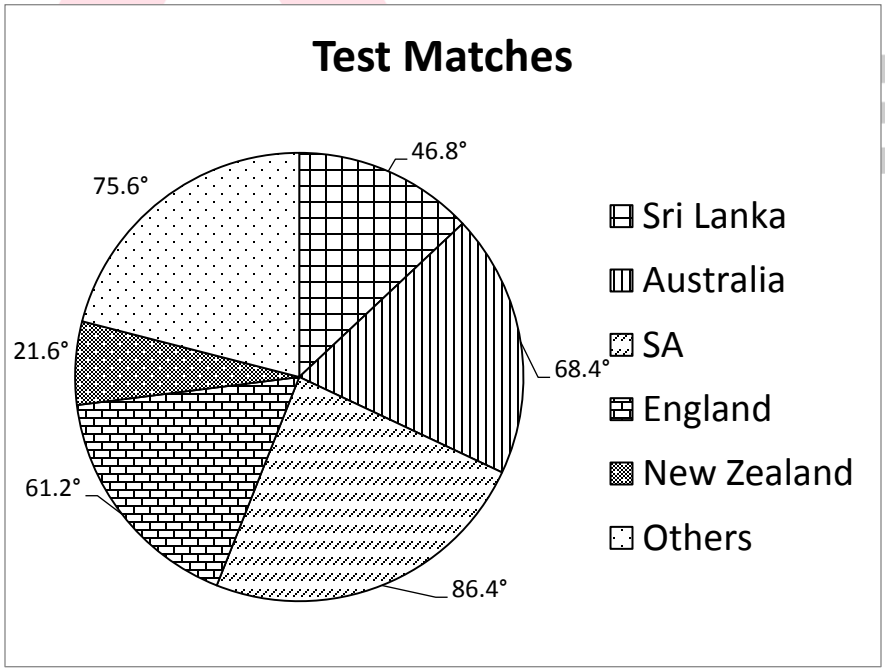
Quiz Date: 19th June 2020

Directions (1-5): Given below are the pie charts showing the distribution of runs scored by an Indian batsman against different teams in ODI matches and test matches. The total runs scored by the batsman in ODI matches is 11550 and in test matches is 9800. Read the pie charts carefully and answer the following questions:





Q1. Total runs scored against Australia in ODI & Test together is approximately what times of the total runs scored against south Africa in ODI & Test together?
(a) 0.66

(b) 0.68
(c) 0.71
(d) 0.75
(e) 0.78

Q2. If the runs scored in ODI matches against west indies is $14\frac{2}{7}\%$ of the total runs scored in ODI matches against "others", then find the difference between runs scored against West Indies in ODI matches and the total runs scored against England in test matches and ODI matches together?
(a) 2141
(b) 2155
(c) 2161
(d) 2175
(e) None of these

Q3. Runs scored against New Zealand in ODI's form are what percent of total runs scored by the batsman against New Zealand?
(a) 75%
(b) $74\frac{2}{3}\%$
(c) 80%
(d) $73\frac{1}{3}\%$
(e) 82%

Q4. If $44\frac{4}{9}\%$ of the runs scored against Sri Lanka in ODI's and $\frac{5}{14}$ of the runs scored against the same team in test matches, are scored in India. Then find the difference between runs scored against Sri Lanka in test matches outside India and the runs scored against the same team in ODI's outside India.
(a) 336
(b) 327
(c) 341
(d) 345
(e) None of these

Q5. Find the approximate average of runs scored against Sri Lanka, Australia, SA, and England in test matches.
(a) 1701
(b) 1755
(c) 1864
(d) 1878
(e) 1789

Direction (6-10): What should come in place of the question mark (?) in the following questions?

Q6. $2\frac{3}{5}$ of $3\frac{1}{13}$ of 19 – 40% of 330 =?
(a) 30
(b) 20
(c) 40
(d) 36
(e) 28

Q7. $\sqrt{\sqrt{9216}+\sqrt{5329}} = ?^2 - 12$
(a) 7
(b) 4
(c) 5
(d) 6
(e) 8

Q8. $2\frac{1}{19} \times 5\frac{3}{7} \div 1\frac{6}{7} - 2\frac{1}{2} = ? - 3\frac{1}{2}$
(a)3
(b)6
(c)5
(d)4
(e)7

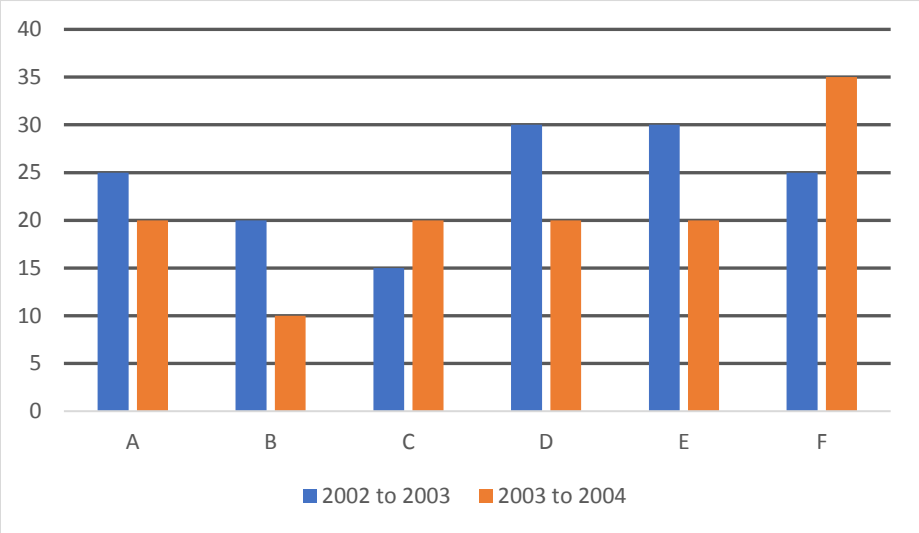
Q9. 61% of 400 -15% of 180 - ? = 98
(a)119
(b)112
(c)118
(d)124
(e)142

Q10. $\sqrt[3]{4913} \div \sqrt[3]{2197} \times \sqrt{676} = ?$
(a)108
(b)121
(c)76
(d)28

(e)34

Directions (11–15) : Read the following table carefully and answer the questions given below.

Percentage increase in population of 6 villages from 2002 to 2003 and from 2003 to 2004



Actual total population of these villages in 3 different years.

Years / Village	2002	2003	2004
A	–	–	3750
B	–	1980	–
C	–	–	1518
D	–	–	–
E	1250	–	–
F	1200	–	–

Q11. What is the ratio of total population of village E in 2004 to village A in 2002?

(a) 41:50

(b) 37:45

(c) 48:31

(d) 44:53
(e) None of these

Q12. Total population of village A in 2002 is what percent more than total population of village C in 2002? (round off to 2 decimal Places)
(a) 129.27%
(b) 127.27%
(c) 135%
(d) 123.37%
(e) 133.33%

Q13. If ratio of total population of village C and D in 2002 is 22:27, then what will be total population of village D in 2004?
(a) 1350
(b) 2108
(c) 1250
(d) 2106
(e) 2316

Q14. The total population of F in 2002 is what percent of the total population of same village in 2004? (round off to 2 decimal places)
(a) 53.26
(b) 59.38
(c) 49.38
(d) 57.38
(e) 59.26

Q15. Total population in 2002 of all villages together is approximately what percent less than the total population in 2004 of all villages together?
(a) 33
(b) 39
(c) 37
(d) Can't be determined
(e) None of these

Solutions

S(1-5):-

Country	ODI	Test
Srilanka	2079	1274
Australia	1386	1862
Soouth Africa	2541	2352
England	924	1666
New Zealand	1617	588
Others	3003	2058

S1. Ans (a)
Sol. Required ratio = $\frac{1386+1862}{2541+2352} = 0.66$

S2. Ans (c)
Sol. Runs scored in ODI's against
West Indies = $\frac{1}{7} \times \frac{26}{100} \times 11550 = 429$
Total runs scored against England
= 924 + 1666 = 2590
Required difference = 2161

S3. Ans (d)
Sol. Required percentage = $\frac{1617}{1617+588} \times 100 = 73\frac{1}{3}\%$

S4. Ans (a)
Sol. Runs scored in ODI's in India = $\frac{4}{9} \times \frac{18}{100} \times 11550 = 924$
Runs scored in ODI's outside India = $2079 - 924 = 1155$
Runs scored in test matches outside India = $\frac{9}{14} \times \frac{46.8}{360} \times 9800 = 819$
Required difference = $1155 - 819 = 336$

S5. Ans (e)
Sol. Required average = $\frac{(46.8° + 68.4° + 86.4° + 61.2°)}{4 \times 360°} \times 9800$
= 1789 runs (approximate)

S6. Ans.(b)
Sol.
$? = \frac{13}{5} \times \frac{40}{13} \times 19 - \frac{40}{100} \times 330$
= 152 – 132
= 20

S7. Ans (c)
Sol. $\sqrt{\sqrt{9216} + \sqrt{5329}} = ?^2 - 12$
$\sqrt{96 + 73} = ?^2 - 12$

$?^2 = 25$
So, ?=5

S8. Ans (e)
Sol.
$2\frac{1}{19} \times 5\frac{3}{7} \div 1\frac{6}{7} - 2\frac{1}{2} = ? - 3\frac{1}{2}$
$?=\frac{39}{19} \times \frac{38}{7} \times \frac{7}{13} - \frac{5}{2} + \frac{7}{2}$
?=7

S9. Ans (a)
Sol.
61% of 400 -15% of 180 - ? = 98
$\frac{61}{100} \times 400 - \frac{15}{100} \times 180 - ? = 98$
?=119

S10. Ans (e)
Sol. $\sqrt[3]{4913} \div \sqrt[2]{2197} \times \sqrt{676} = ?$
$=17 \div 13 \times 26 = ?$
$=\frac{17}{13} \times 26 = ?$
So, ?=34

S11. Ans. (e)
Sol. total population of E in 2004
$1250 \times \frac{(100+30)}{100} \times \frac{(100+20)}{100} = 1950$
Total population of A in 2002
$= 3750 \times \frac{100}{125} \times \frac{100}{120} = 2500$
required ratio = $\frac{1950}{2500} = 39 : 50$

S12. Ans. (b)
Sol. Total population of A in 2002 = 2500
Total population of C in 2002 = $1518 \times \frac{100}{120} \times \frac{100}{115} = 1100$
Required percentage = $\frac{2500-1100}{1100} \times 100 = 127.27\%$

S13. Ans. (d)
Sol. total population of D in 2002 = $\frac{27}{22} \times 1100 = 1350$
Total population of D in 2004 $= 1350 \times \frac{130}{100} \times \frac{120}{100} = 2106$

S14. Ans. (e)

Sol. Total population of F in 2004 = $1200 \times \frac{125}{100} \times \frac{135}{100} = 2025$

required percentage = $\frac{1200}{2025} \times 100 = 59.26\%$

S15. Ans. (d)

Sol. Can't be determined as no information is given about population of D