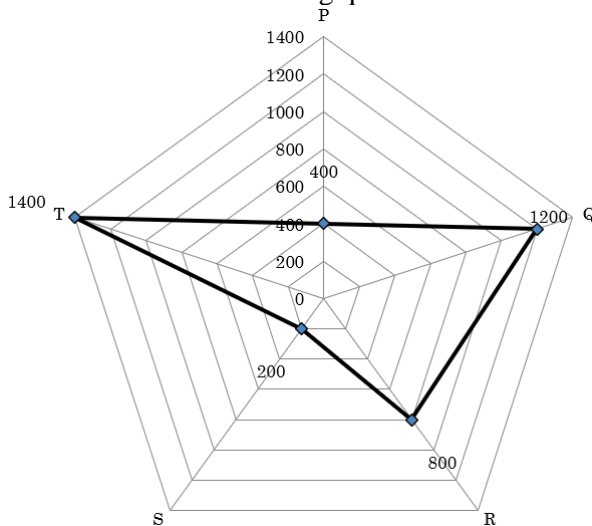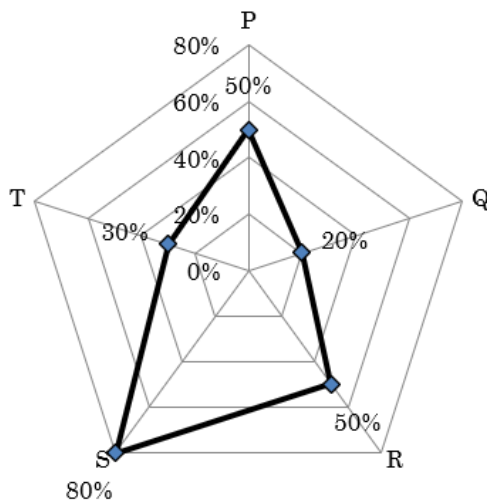## Radar Graph

Direction (1-5): Study the following graphs and answer the following question:

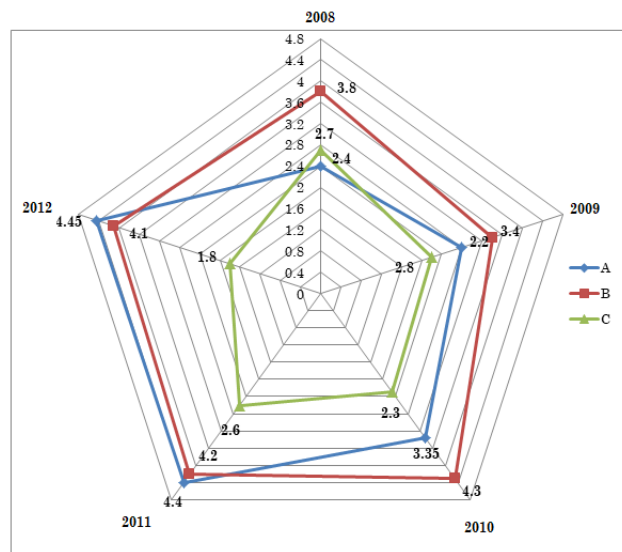**No. of students from different states who appeared for medical examination (in thousands) in a certain year**

Percentage of students who passed examination

1. No. of students who failed in the state 'Q' is (in thousands):
(A) 80   (B) 240
(C) 960   (D) 1200
(E) None

2. Total No. of students passed in the states of Q and R (in thousands) is:
(A) 240   (B) 400
(C) 640   (D) 720
(E) None

3. Ratio of number of the students passed to the number of students failed in the state 'S' is:
(A) 3 : 4   (B) 4 : 1
(C) 2 : 3   (D) 1:4
(E) None of these

4. Ratio of number of students passed in state 'T' to the number of students failed in state 'Q' is:
(A) 8 : 15   (B) 15 : 8
(C) 7 : 16   (D) 16 : 7
(E) None

5. How many students passed in the states 'R' and 'T' (in thousands)?
(A) 400   (B) 420
(C) 820   (D) 20
(E) None

Direction (6-10): Study the following graph to answer the questions given below it.

The bar graph shows the performance of 3 political parties A, B and C in terms of votes acquired in the election in a constituency during 2008 to 2012.

6. By what per cent is the average number of votes acquired by B more/less than that of A during 2008 to 2012?
(A) 13% more
(B) 13% less
(C) 15% more
(D) 14% more
(E) 12% less

7. How many more votes are required by C in 2013 than in 2012 to make the ratio of votes with A, 3 : 2, keeping the votes of A same in 2012?
(A) 12.45 lakh
(B) 4.875 lakh
(C) 6.25 lakh
(D) 1.27 lakh
(E) 2.39 lakh

8. By what per cent should votes of B increase/decrease from their actual value in 2012 to equal its average during the previous 4 year?
(A) Increase by 3.5%
(B) Increase by 5.8%
(C) Decrease by 5.8%
(D) Decrease by 3.5%
(E) Decrease by 4.3%

9. In 2011, by what per cent should the votes of C increase to exceed the votes of B in the same year by 12%?
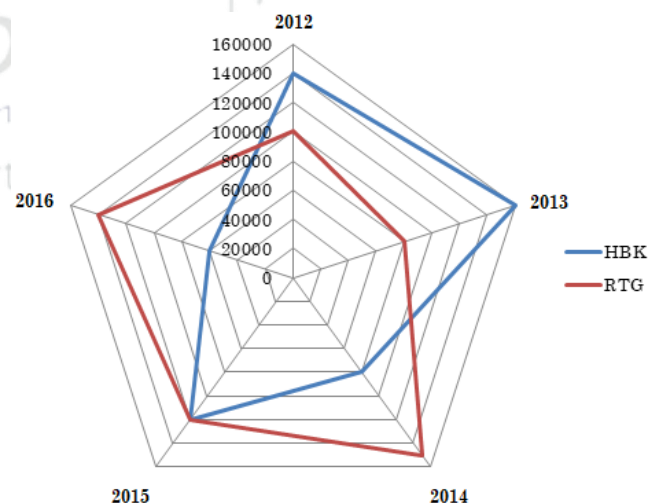
(A) 51%
(B) 33.9%
(C) 80.9%
(D) 53.5%
(E) 92.6%

10. What per cent of votes were acquired by B with respect to the total votes acquired by all the three parties in 2009?
(A) 25.33%
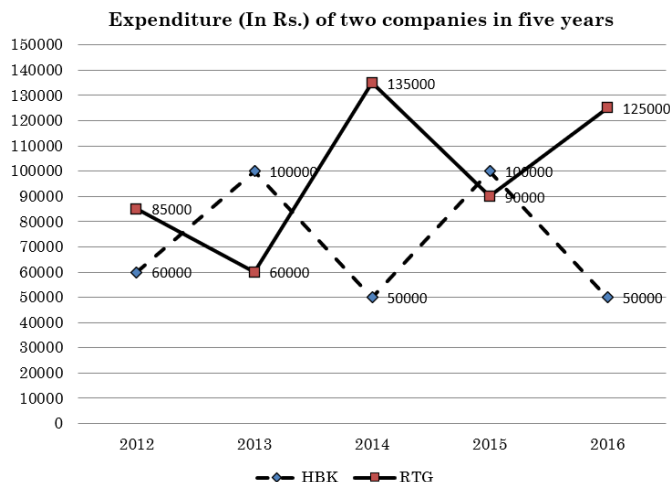(B) 40.05%
(C) 33.33%
(D) 61.25%
(E) 52.69%

Directions (11-15): Study the following information carefully and answer the questions given below:

The bar graph represents income of two companies in five years.

Income (In Rs.) of two companies in five years

The line graph represents expenditure of two companies in five years.

Expenditure (In Rs.) of two companies in five years

Legend: HBK, RTG

15. Find the sum of percentage decrease in the income of HBK from 2012 to 2016 and percentage increase in the income of RTG from 2012 to 2016.
(A) 89.99% **(B)** 78.88%
(C) 67.67% **(D)** 97.14%
(E) 83.33%

Directions (16-20): Study the following information carefully and answer the given questions:

Number of different balls in two bags x and y:-

11. Percent profit earned by HBK in 2014 is what percent more than the percent profit earned by RTG in 2016?
(A) 250% **(B)** 400%
(C) 300% **(D)** 150%
(E) None of these

12. Income of RTG in 2017 is 20% more than its income in 2015 and expenditure of the company in 2017 is 10% less than its expenditure in 2015. Find the respective ratio of percent profit earned by RTG in 2015 and 2017.
(A) 3:4 **(B)** 4:5
(C) 3:7 **(D)** 5:7
(E) None of these

13. Find the difference between income of HBK in all the years together and expenditure of RTG in all the years together.
(A) Rs.85000 **(B)** Rs.65000
(C) Rs.80000 **(D)** Rs.75000
(E) None of these

14. Profit percent of HBK in 2012 is approximately what percent of the profit percent of RTG in the same year?
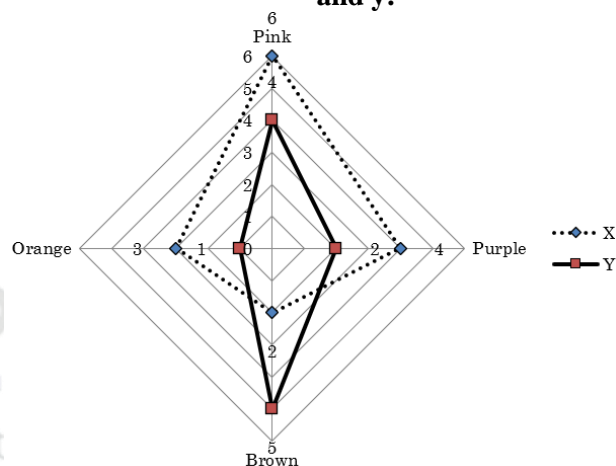**(A)** 580% **(B)** 654%
(C) 712% **(D)** 820%
(E) 756%

16. If two balls are picked at random from Bag x then what is the probability that both balls are Pink?
(A) 1/7 **(B)** 5/7
(C) 2/8 **(D)** 3/7
(E) None of these

17. If three balls are picked at random from Bag Y, what is the probability that two are Pink and one is Brown?
(A) 3/21 **(B)** 3/22
(C) 5/23 **(D)** 5/20
(E) None of these

18. If four balls are picked at random from Bag X what is the probability that one is Brown, two are Purple and one is Pink?
(A) 20/455 **(B)** 3/320

(C) 24/455   (D) 1/66

(E) None of these

19. If two balls are chosen at random from bag Y, what is the probability that both are purple?

(A) 1/66   (B) 3/22

(C) 8/77   (D) 4/28

(E) None of these

20. If two balls are picked at random from Bag x, what is the probability that either both are Brown or both are Orange?

(A) 2/105   (B) 6/105

(C) 9/51   (D) 4/105

(E) None of these