

## FRACTION, HCF AND LCM

Max. Marks : 35

No. of Qs. 35

Time : 25 min.

Date : ..... / ..... / .....

1. The respective ratio between the present ages of Ram and Rakesh is 6 : 11. Four years ago, the ratio of the ages was 1 : 2 respectively. What will be Rakesh's age after five years?  
 (a) 45 years      (b) 29 years  
 (c) 49 years      (d) Cannot be determined  
 (e) None of these
2. If the numerator of a fraction is increased by 150% and the denominator of the fraction is increased by 350%, the resultant fraction is  $\frac{25}{51}$ , what is the original fraction?  
 (a)  $\frac{11}{17}$       (b)  $\frac{11}{15}$       (c)  $\frac{15}{17}$   
 (d)  $\frac{13}{15}$       (e) None of these
3. By how much is  $\frac{3}{4}$  th of 968 less than  $\frac{7}{8}$  th of 1008?  
 (a) 154      (b) 146      (c) 165  
 (d) 158      (e) None of these
4. Two third of three-fourth of one-fifth of a number is 15. What is 30 per cent of that number?  
 (a) 45      (b) 60      (c) 75  
 (d) 30      (e) None of these
5. The value of which of the following fractions is less than twenty per cent?  
 (a)  $\frac{5}{6}$       (b)  $\frac{2}{3}$       (c)  $\frac{2}{5}$   
 (d)  $\frac{1}{4}$       (e)  $\frac{2}{11}$
6. When 30% of one number is subtracted from another number, the second number reduces to its four-fifth. What is the ratio between the first and the second number respectively?  
 (a) 4 : 7      (b) 3 : 2  
 (c) 2 : 5      (d) Cannot be determined  
 (e) None of these
7. If the numerator of a fraction is increased by 400% and the denominator is increased by 500%. The resultant fraction is  $\frac{20}{27}$ . What was the original fraction?

- (a)  $\frac{9}{8}$       (b)  $\frac{11}{12}$   
 (c)  $\frac{3}{4}$       (d) Cannot be determined

- (e) None of these
8. If the numerator of a fraction is increased by 200% and the denominator is increased by 350%. The resultant fraction is  $\frac{5}{12}$ . What was the original fraction?

- (a)  $\frac{5}{9}$       (b)  $\frac{5}{8}$       (c)  $\frac{7}{12}$   
 (d)  $\frac{11}{12}$       (e) None of these

9. The difference between the  $\frac{3}{4}$  th of  $\frac{4}{5}$  th of a number and  $\frac{1}{6}$  th of  $\frac{2}{5}$  th of the same number is 648. What is the number?  
 (a) 1110      (b) 1215      (c) 1325  
 (d) 1440      (e) None of these

10. If  $3\frac{4}{5}$  is subtracted from  $6\frac{3}{5}$  and difference is multiplied by 355 then what will be the final number?  
 (a) 1004      (b) 884      (c) 774  
 (d) 994      (e) None of these

11. If the numerator of a fraction is increased by 240% and the denominator of the fraction is decreased by 50%, the resultant fraction is  $2\frac{5}{6}$ . What is the original fraction?

- (a)  $\frac{1}{4}$       (b)  $\frac{2}{3}$       (c)  $\frac{5}{12}$   
 (d)  $\frac{4}{11}$       (e) None of these

12. If the numerator of a fraction is increased by 200% and the denominator is increased by 300%, the resultant fraction is  $\frac{15}{26}$ . What was the original fraction?

- (a)  $\frac{8}{11}$       (b)  $\frac{10}{11}$       (c)  $\frac{9}{13}$   
 (d)  $\frac{10}{13}$       (e) None of these

## RESPONSE GRID

1. (a) (b) (c) (d) (e)    2. (a) (b) (c) (d) (e)    3. (a) (b) (c) (d) (e)    4. (a) (b) (c) (d) (e)    5. (a) (b) (c) (d) (e)  
 6. (a) (b) (c) (d) (e)    7. (a) (b) (c) (d) (e)    8. (a) (b) (c) (d) (e)    9. (a) (b) (c) (d) (e)    10. (a) (b) (c) (d) (e)  
 11. (a) (b) (c) (d) (e)    12. (a) (b) (c) (d) (e)