## Real Numbers Ex. 1.4



Esc. 1.4 10 13  $3125 = 5^{5}$ هم 3125 = 2° × 5<sup>5</sup> i.e. 3125 are of the factors of q Since form 2" x 5" <u>13</u> will have 3125 a terminating decimal.  $8 = 2^{3}$  $8 = 2^3 \times 5^{\circ}$ i.e. 8 ore of the foctors of Since form 2"x5 have a termina decimal. will 1 <u>64</u> 455  $455 = 5 \times 7 \times 13$ are not of the factors of q i.e. 455 Since the form 2" x 5" 455 vill have a non-terminati refeating decimal.  $\frac{15}{1600} = \frac{3}{320}$  $320 = 2^{6} \times 5$ Since the factors of q i.e. 320 are of



(iii) 
$$\frac{G^2}{455} = \frac{2}{5\times2^{\circ}}$$
  
bince the factors of  $\gamma$  are of the form  
 $\frac{2^{\circ} \times 5^{\circ}}{15}$   
 $\therefore \frac{G}{15}$  will have a terminating decimal.  
(i)  $\frac{35}{15} = \frac{7}{10} = \frac{7}{2\times5}$   
bince the factors of  $\gamma$  are of the form  
 $\frac{2^{\circ} \times 5^{\circ}}{10}$   
 $\therefore \frac{35}{50}$  will have a terminating decimal.  
(i)  $\frac{27}{11} = \frac{11}{3^{\circ}} = \frac{11}{2\times3\times5}$   
bince the factors of  $\gamma$  are not of the form  
 $\frac{2^{\circ} \times 5^{\circ}}{10}$   
 $\therefore \frac{37}{10} = \frac{11}{3^{\circ}} = \frac{11}{2\times3\times5}$   
bince the factors of  $\gamma$  are not of the form  
 $\frac{2^{\circ} \times 5^{\circ}}{10}$   
 $\therefore \frac{37}{210}$  will have a non-terminating separting  
cheatingle.  
(i)  $\frac{13}{3125} = \frac{13}{5^{\circ}} \times \frac{2^{\circ}}{2^{\circ}} = \frac{-416}{10^{\circ}} = 0.00416$   
(i)  $\frac{12}{8} = \frac{13}{2^{\circ}} \times \frac{5^{\circ}}{5^{\circ}} = \frac{3\times3125}{10^{\circ}} = \frac{2375}{10^{\circ}} = 0.009375$ 

(i) 
$$\frac{23}{1^3 \le 2} \times \frac{5}{5} = \frac{115}{10^3} = 0.115$$
  
(ii)  $\frac{5}{1^2 \le 2} = \frac{2}{5} \times \frac{2}{2} = \frac{4}{10} = 0.4$   
(i)  $\frac{35}{5010} = \frac{7}{10} = 0.7$   
(i)  $\frac{35}{5010} = \frac{7}{10} = 0.7$   
(i)  $\frac{123}{5010} = \frac{1}{10} = 0.7$   
(i)  $\frac{12}{123} + \frac{1}{5000} + \frac{1}{2000} + \frac{1}{20000} + \frac{1}{2000} + \frac{1}{2000$