

CW  
2/8/21

Chapter-8 Exercise-8(A)

1) Factors of 15 = 1, 3, 5, 15

ii) Factors of 55 = 1, 5, 11, 55

iii) Factors of 48 = 1, 2, 3, 4, 6, 8, 12, 16, 24, 48

iv) Factors of 36 = 1, 2, 3, 4, 6, 9, 12, 18, 36

v) Factors of 84 = 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84

2) Prime numbers less than 25 =

2, 3, 5, 7, 11, 13, 17, 19, 23

ii) Prime numbers between 15 and 35 =

17, 19, 23, 29, 31

iii) Prime numbers between 8 and 76 =

11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 71, 73

3) Prime numbers from 5 to 45 =

5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43

ii) Prime numbers from 2 to 32 =

2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31

iii) Prime numbers from 8 to 48 =

11, 13, 17, 19, 23, 29, 31, ~~37~~ 37, 41, 43, 47

iv) Prime numbers from 9 to 59 =

11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59

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$$\begin{array}{r}
 41) \ 16 = 2 \overline{) 16} \\
 \underline{2 \phantom{0}} \phantom{0} \\
 2 \phantom{0} \phantom{0} \\
 \underline{2 \phantom{0}} \phantom{0} \\
 2 \phantom{0} \\
 \underline{2} \\
 1
 \end{array}$$

Prime factors of  $16 = 2$

$$\begin{array}{r}
 42) \ 27 = 3 \overline{) 27} \\
 \underline{3 \phantom{0}} \phantom{0} \\
 3 \phantom{0} \\
 \underline{3} \\
 3 \\
 \underline{3} \\
 1
 \end{array}$$

Prime factors of  $27 = 3$

$$\begin{array}{r}
 43) \ 35 = 5 \overline{) 35} \\
 \underline{5 \phantom{0}} \phantom{0} \\
 7 \\
 \underline{7} \\
 1
 \end{array}$$

Prime factors of  $35 = 5, 7$

$$\begin{array}{r}
 44) \ 49 = 7 \overline{) 49} \\
 \underline{7 \phantom{0}} \phantom{0} \\
 7 \\
 \underline{7} \\
 1
 \end{array}$$

Prime factors of  $49 = 7$

$$\begin{array}{l}
 51) \ E_6 = 1, 2, 3, 6 \\
 P \cdot F_6 = 2, 3
 \end{array}$$

$$\begin{array}{l}
 52) \ E_{24} = 1, 2, 3, 4, 6, 8, 12, 24 \\
 P \cdot F_{24} = 2, 3
 \end{array}$$

$$53) \ E_{30} = 1, 2, 3, 5, 6, 10, 15, 30$$

$$\begin{array}{l}
 54) \ E_{50} = 1, 2, 5, 10, 25, 50 \\
 P \cdot F_{50} = 2, 5
 \end{array}$$

$$\begin{array}{l}
 55) \ E_{42} = 1, 2, 3, 6, 7, 14, 21, 42 \\
 P \cdot F_{42} = 2, 3, 7
 \end{array}$$

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