

Ch 3 HW

Monday, September 12, 2011
10:52 AM

Sec 3.1

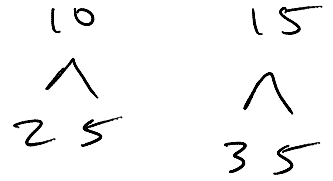
4) 10, 15

LCM = 30

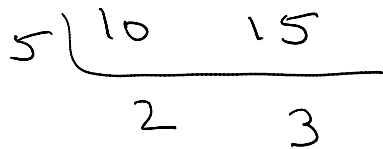
10 · 1 = 10
10 · 2 = 20
10 · 3 = 30

15 · 1 = 15

15 · 2 = 30

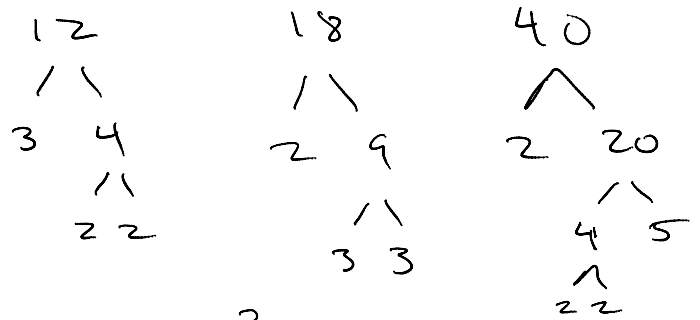


LCM = 2 · 3 · 5



5 · 2 · 3 = LCM

28) 12, 18, 40



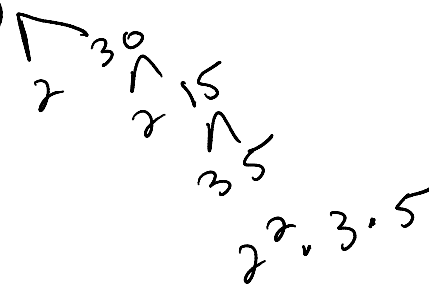
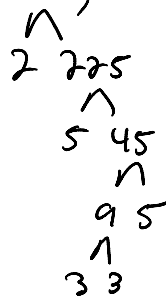
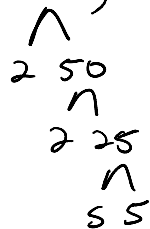
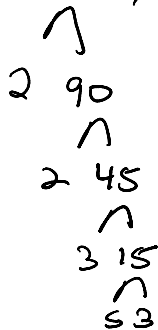
12 = ~~3~~ · ~~2~~²

18 = ~~3~~² · ~~2~~

40 = 5 · 2³

LCM = 2³ · 3² · 5

31) 180, 100, 450, 60



$$(2^2) \cdot (3^2) \cdot 5 \quad 2^2 \cdot (5^2) \quad 2 \cdot 5^2 \cdot 3^2$$

$$2^2 \cdot 3^2 \cdot 5^2 = 900$$

Sec 3.2 | Do # 35 $\hat{=}$ 33
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$$\#36 \left| \frac{5}{7} + \frac{25}{52} + \frac{7}{4}$$

$$\begin{array}{r} 7 \quad 52 \quad 4 \\ \hline 11 \quad 11 \quad 11 \\ 1 \cdot 7 \quad 2 \quad 26 \quad 22 \\ \hline 11 \\ 2 \quad 13 \end{array}$$

$$\begin{aligned} & \rightarrow 7 = 1 \cdot 7 \\ & 52 = \cancel{2} \cdot \cancel{2} \cdot 13 \\ & 4 = \cancel{2} \cdot \cancel{2} \\ & \frac{5}{7} \left(\frac{4 \cdot 13}{4 \cdot 13} \right) = \frac{5 \cdot 4 \cdot 13}{364} \end{aligned}$$

$$\begin{aligned} \text{LCM} &= \cancel{2} \cdot \cancel{2} \cdot 7 \cdot 13 \\ &= 4 \cdot 7 \cdot 13 \\ &= 28 \cdot 13 \\ &= 364 \end{aligned}$$

$$\begin{array}{r} 228 \\ \times 13 \\ \hline 184 \\ 28 \\ \hline 364 \end{array}$$

$$\frac{25}{52} \left(\frac{7}{7} \right) = \frac{25 \cdot 7}{364}$$

$$\begin{array}{r} 20 \\ \times 13 \\ \hline 60 \\ 20 \\ \hline 260 \end{array} \quad \begin{array}{r} 249 \\ \times 13 \\ \hline 147 \\ 49 \\ \hline 637 \end{array}$$

$$\frac{7}{4} \left(\frac{7 \cdot 13}{7 \cdot 13} \right) = \frac{7 \cdot 7 \cdot 13}{364}$$

$$\frac{260}{364} + \frac{175}{364} + \frac{637}{364} = \frac{1072}{364}$$

$$\begin{array}{r} 260 \\ 175 \\ + 637 \\ \hline 1072 \end{array}$$

10 7 2