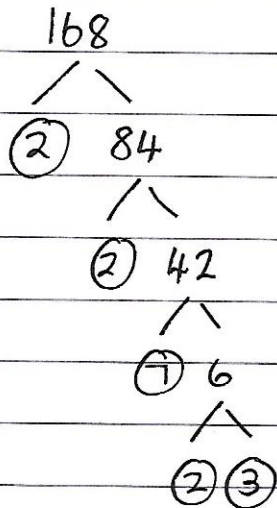


Answers

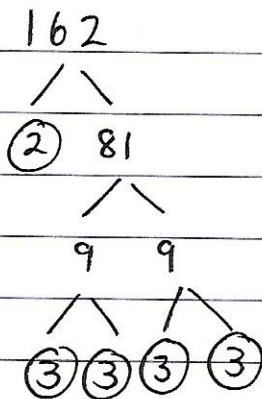
1)



$$168 = 2 \times 2 \times 2 \times 3 \times 7$$

$$= 2^3 \times 3 \times 7$$

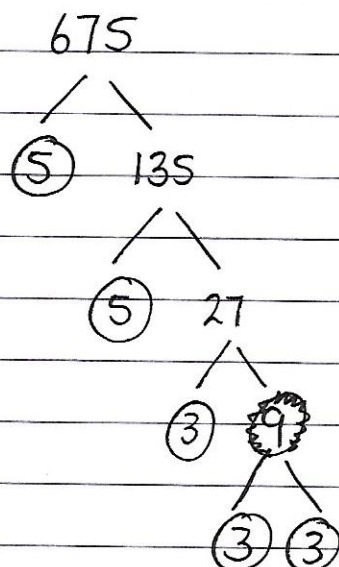
2)



$$162 = 2 \times 3 \times 3 \times 3 \times 3$$

$$= 2 \times 3^4$$

3)



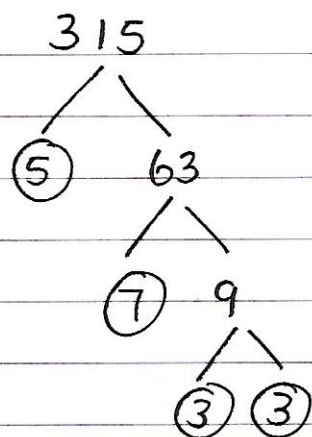
$$\begin{array}{r} 135 \\ 5 \overline{) 675} \\ \underline{5} \\ 17 \\ \underline{15} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

$$\begin{array}{r} 27 \\ 5 \overline{) 135} \\ \underline{10} \\ 35 \\ \underline{30} \\ 5 \\ \underline{5} \\ 0 \end{array}$$

$$675 = 3 \times 3 \times 3 \times 5 \times 5$$

$$= 3^3 \times 5^2$$

4)

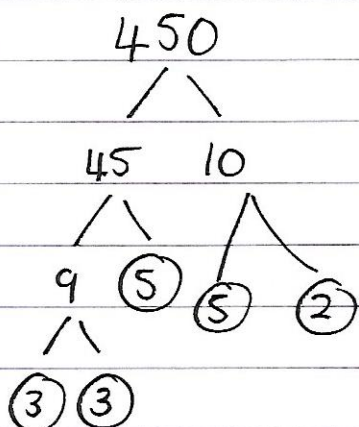


$$\begin{array}{r} 63 \\ 5 \overline{) 315} \end{array}$$

$$315 = 3 \times 3 \times 5 \times 7$$

$$= 3^2 \times 5 \times 7$$

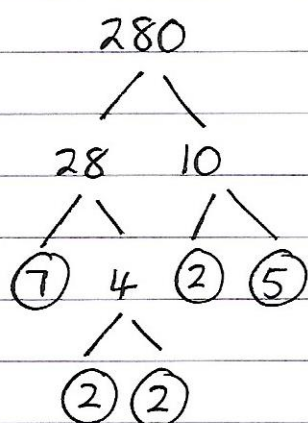
5)



$$450 = 2 \times 3 \times 3 \times 5 \times 5$$

$$= 2 \times 3^2 \times 5^2$$

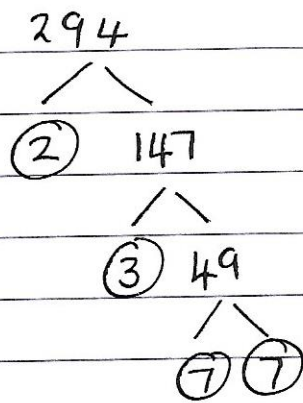
6)



$$280 = 2 \times 2 \times 2 \times 5 \times 7$$

$$= 2^3 \times 5 \times 7$$

7)



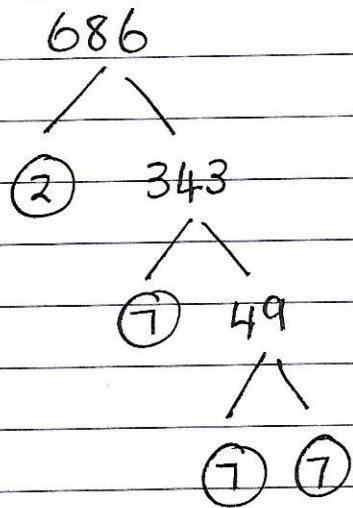
$$\begin{array}{r}
 147 \\
 2 \overline{) 294}
 \end{array}$$

TRY $\div 147$ by 3

$$\begin{array}{r}
 49 \\
 3 \overline{) 147}
 \end{array}$$

$$\begin{aligned}
 \therefore 294 &= 2 \times 3 \times 7 \times 7 \\
 &= 2 \times 3 \times 7^2
 \end{aligned}$$

8)



Try $\div 343$ by 3

$$\begin{array}{r}
 114 \text{ r } 1 \\
 3 \overline{) 343}
 \end{array}$$

X
NO!

Try $\div 343$ by 7

$$\begin{array}{r}
 49 \\
 7 \overline{) 343}
 \end{array}$$

YES.

$$\begin{aligned}
 \therefore 686 &= 2 \times 7 \times 7 \times 7 \\
 &= 2 \times 7^3
 \end{aligned}$$