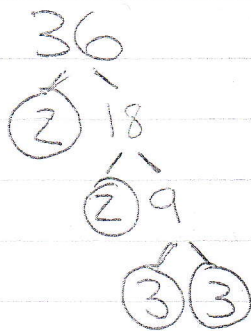
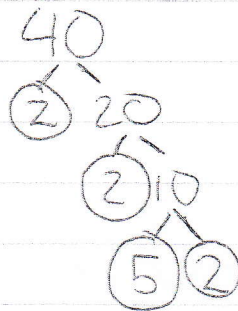


I can use prime factors to find the lowest common multiples of composite numbers.



$$36 = 3 \times 3 \times 2 \times 2$$

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



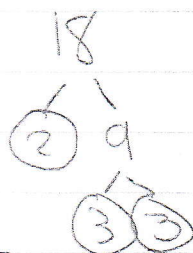
$$40 = 2 \times 2 \times 2 \times 5$$

$$= 2^3 \times 5$$

$$\textcircled{2} \times \textcircled{2} \times \underline{3 \times 3 \times 2 \times 5} = 360$$

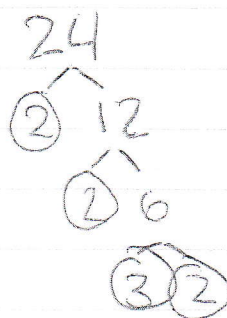
Find the matching multipliers (circled) and then put the remaining numbers on the end and multiply. (underlined)

(The first common multiple is found by multiplying the common factors, then all the remain ones)



$$18 = \textcircled{2} \times 3 \times \textcircled{3}$$

$$24 = \textcircled{2} \times 2 \times \textcircled{2} \times 3$$



$$2 \times 3 \times 3 \times 2 \times 2 = 72$$

$$\begin{array}{c}
 50 \\
 \swarrow \searrow \\
 (5) \quad 10 \\
 \quad \swarrow \searrow \\
 \quad (5) (2) \\
 50 = 5 \times 2 \times 5
 \end{array}$$

$$\begin{array}{c}
 75 \\
 \swarrow \searrow \\
 (3) \quad 25 \\
 \quad \swarrow \searrow \\
 \quad (5) (5) \\
 75 = 5 \times 3 \times 5
 \end{array}$$

$$\begin{array}{c}
 (5) \times 3 \times (5) \\
 (5) \times 2 \times (5)
 \end{array}$$

$$5 \times 5 \times 3 \times 2 = 150$$

$$\text{L.C.M.} = 150$$