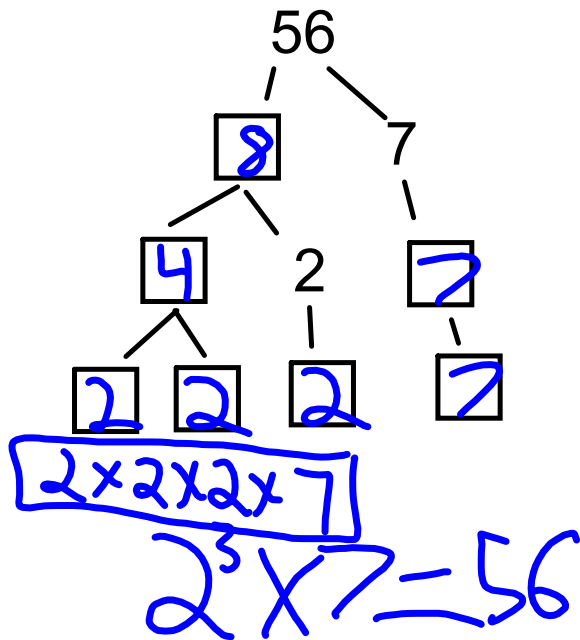
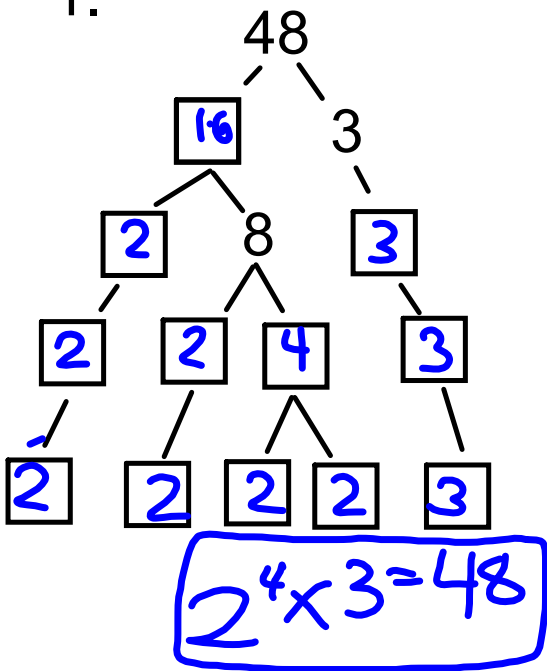
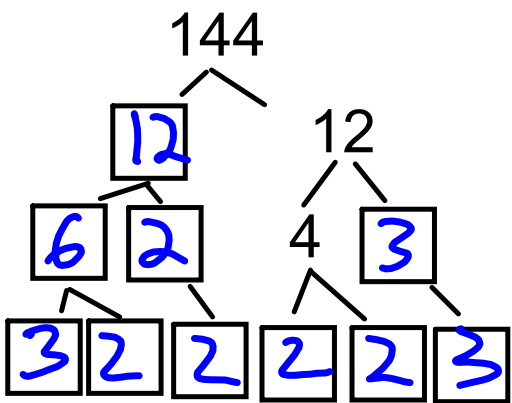


# les facteurs premiers

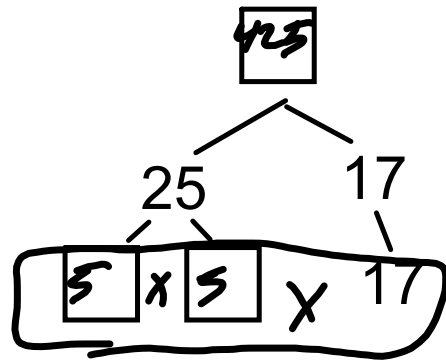
1.





$$2 \times 2 \times 2 \times 2 \times 3 \times 3 = 144$$

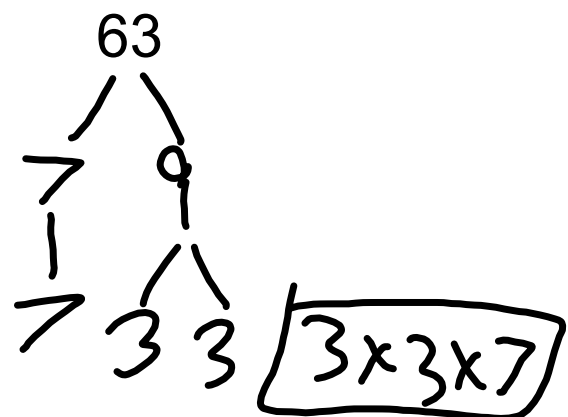
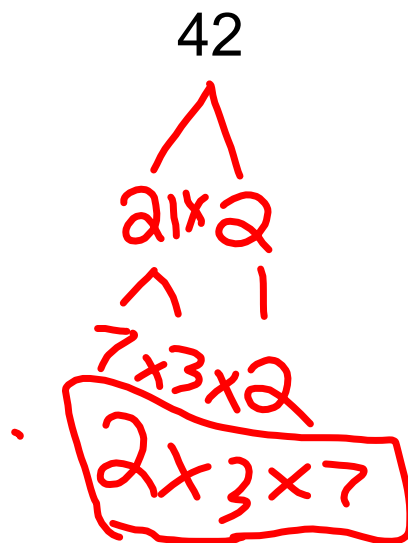
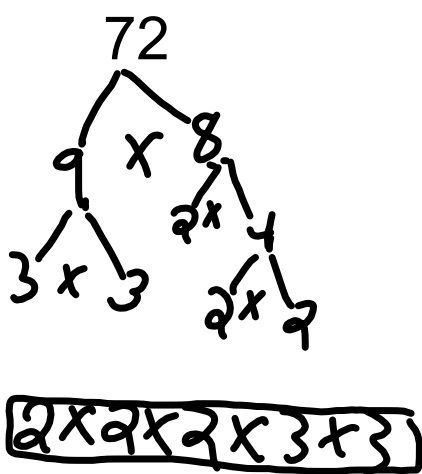
$$2^4 \times 3^2 = 144$$



or  $5^2 \times 17 = 425$

$$\begin{array}{r}
 175 \\
 \times 17 \\
 \hline
 1175 \\
 2500 \\
 \hline
 4250
 \end{array}$$

2. Décompose ces nombres en facteurs premiers. Fais un arbre de facteurs.



3. Décompose ces nombres en facteurs premiers. Utilise la division.

$$\begin{array}{r}
 3 \overline{) 99} \\
 \underline{33} \\
 66 \\
 \underline{33} \\
 33 \\
 \underline{33} \\
 0
 \end{array}$$

$3 \times 3 \times 11$

$$\begin{array}{r}
 5 \overline{) 125} \\
 \underline{50} \\
 75 \\
 \underline{50} \\
 25 \\
 \underline{25} \\
 0
 \end{array}$$

$5 \times 5 \times 5$

$$\begin{array}{r}
 25 \\
 \sqrt{125} \\
 \underline{10} \downarrow \\
 25 \\
 \underline{25} \\
 0
 \end{array}$$

$$\begin{array}{r}
 2 \overline{) 108} \\
 \underline{20} \\
 88 \\
 \underline{20} \\
 68 \\
 \underline{30} \\
 38 \\
 \underline{30} \\
 8 \\
 \underline{3} \\
 5 \\
 \underline{3} \\
 2
 \end{array}$$

$2 \times 2 \times 3 \times 3 \times 3$

$$\begin{array}{r}
 2 \overline{) 100} \\
 \underline{20} \\
 80 \\
 \underline{20} \\
 60 \\
 \underline{50} \\
 10 \\
 \underline{5} \\
 5 \\
 \underline{5} \\
 0
 \end{array}$$

$2 \times 2 \times 5 \times 5$

..

4 Décompose ces nombres en facteurs premiers.

123

56

60

96

84

45

625

288

