

Facteurs Premiers (A) Solutions

Utilisez un diagramme à branches pour trouver les facteurs premiers des nombres suivants.

62

$$\begin{array}{c}
 62 \\
 \swarrow \quad \searrow \\
 2 \quad 31 \\
 \hline
 62 = 2 \times 31
 \end{array}$$

36

$$\begin{array}{c}
 36 \\
 \swarrow \quad \searrow \\
 4 \quad 9 \\
 \swarrow \quad \searrow \quad \swarrow \quad \searrow \\
 2 \quad 2 \quad 3 \quad 3 \\
 \hline
 36 = 2^2 \times 3^2
 \end{array}$$

144

$$\begin{array}{c}
 144 \\
 \swarrow \quad \searrow \\
 8 \quad 18 \\
 \swarrow \quad \searrow \quad \swarrow \quad \searrow \\
 2 \quad 4 \quad 2 \quad 9 \\
 \swarrow \quad \searrow \quad \swarrow \quad \searrow \\
 2 \quad 2 \quad 3 \quad 3 \\
 \hline
 144 = 2^4 \times 3^2
 \end{array}$$

78

$$\begin{array}{c}
 78 \\
 \swarrow \quad \searrow \\
 2 \quad 39 \\
 \quad \swarrow \quad \searrow \\
 \quad 3 \quad 13 \\
 \hline
 78 = 2 \times 3 \times 13
 \end{array}$$

135

$$\begin{array}{c}
 135 \\
 \swarrow \quad \searrow \\
 9 \quad 15 \\
 \swarrow \quad \searrow \quad \swarrow \quad \searrow \\
 3 \quad 3 \quad 3 \quad 5 \\
 \hline
 135 = 3^3 \times 5
 \end{array}$$

55

$$\begin{array}{c}
 55 \\
 \swarrow \quad \searrow \\
 5 \quad 11 \\
 \hline
 55 = 5 \times 11
 \end{array}$$

70

$$\begin{array}{c}
 70 \\
 \swarrow \quad \searrow \\
 2 \quad 35 \\
 \quad \swarrow \quad \searrow \\
 \quad 5 \quad 7 \\
 \hline
 70 = 2 \times 5 \times 7
 \end{array}$$

16

$$\begin{array}{c}
 16 \\
 \swarrow \quad \searrow \\
 4 \quad 4 \\
 \swarrow \quad \searrow \quad \swarrow \quad \searrow \\
 2 \quad 2 \quad 2 \quad 2 \\
 \hline
 16 = 2^4
 \end{array}$$

78

$$\begin{array}{c}
 78 \\
 \swarrow \quad \searrow \\
 2 \quad 39 \\
 \quad \swarrow \quad \searrow \\
 \quad 3 \quad 13 \\
 \hline
 78 = 2 \times 3 \times 13
 \end{array}$$