

Medida de ángulos (ampliación)

Ficha 1. Ángulos complementarios

1.1. Indica si son verdaderas o falsas:

V	F	
		Dos ángulos complementarios suman 90°
		Dos ángulos complementarios forman un ángulo llano.
		La resta de dos ángulos complementarios es 90°
		Dos ángulos complementarios forman un ángulo recto.
		Dos ángulos complementarios suman 180°

1.2. ¿Son complementarios $42^\circ 27' 33''$ y $48^\circ 32' 27''$?

$$\begin{array}{r}
 \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \\
 + \quad \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \\
 \hline
 \dots\dots^\circ \quad \dots\dots' \quad \dots\dots''
 \end{array}$$

<input type="checkbox"/> Sí, son complementarios	<input type="checkbox"/> No, son complementarios
--------------------------------------------------	--------------------------------------------------

1.3. ¿Son complementarios $49^\circ 52' 36''$ y $40^\circ 7' 24''$?

$$\begin{array}{r}
 \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \\
 + \quad \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \\
 \hline
 \dots\dots^\circ \quad \dots\dots' \quad \dots\dots''
 \end{array}$$

<input type="checkbox"/> Sí, son complementarios	<input type="checkbox"/> No, son complementarios
--------------------------------------------------	--------------------------------------------------

1.4. Calcula el complementario de $20^\circ 49' 37''$:

$$\begin{array}{r}
 \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \\
 + \quad \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \\
 \hline
 \dots\dots^\circ \quad \dots\dots' \quad \dots\dots''
 \end{array}$$

1.5. Calcula el complementario de 37° 49' :

$$\begin{array}{r}
 \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \\
 + \quad \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \\
 \hline
 \dots\dots^\circ \quad \dots\dots' \quad \dots\dots''
 \end{array}$$

Ficha 2. Ángulos suplementarios

2.1. Indica si son verdaderas o falsas:

V	F	
		Dos ángulos suplementarios suman 90°
		Dos ángulos suplementarios forman un ángulo llano.
		La resta de dos ángulos suplementarios es 90°
		Dos ángulos suplementarios forman un ángulo recto.
		Dos ángulos suplementarios suman 180°

2.2. ¿Son suplementarios 121° 27'' y 58° 59' 33''?

$$\begin{array}{r}
 \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \\
 + \quad \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \\
 \hline
 \dots\dots^\circ \quad \dots\dots' \quad \dots\dots''
 \end{array}$$

	Sí, son complementarios		No, son complementarios
--	-------------------------	--	-------------------------

2.3. ¿Son complementarios 149° 52' 36'' y 40° 7' 24''?

$$\begin{array}{r}
 \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \\
 + \quad \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \\
 \hline
 \dots\dots^\circ \quad \dots\dots' \quad \dots\dots''
 \end{array}$$

	Sí, son complementarios		No, son complementarios
--	-------------------------	--	-------------------------

2.4. Calcula el complementario de $53^{\circ} 37' 48''$:

$$\begin{array}{r}
 \dots\dots^{\circ} \quad \dots\dots' \quad \dots\dots'' \\
 + \quad \dots\dots^{\circ} \quad \dots\dots' \quad \dots\dots'' \\
 \hline
 \dots\dots^{\circ} \quad \dots\dots' \quad \dots\dots''
 \end{array}$$

2.5. Calcula el complementario de $57^{\circ} 19''$:

$$\begin{array}{r}
 \dots\dots^{\circ} \quad \dots\dots' \quad \dots\dots'' \\
 + \quad \dots\dots^{\circ} \quad \dots\dots' \quad \dots\dots'' \\
 \hline
 \dots\dots^{\circ} \quad \dots\dots' \quad \dots\dots''
 \end{array}$$

Ficha 3. Multiplicación de ángulos

3.1. Multiplica: $12^{\circ} 35' 20''$ por 4

$$\begin{array}{r}
 \dots\dots^{\circ} \quad \dots\dots' \quad \dots\dots'' \\
 \phantom{\dots\dots^{\circ} \quad \dots\dots' \quad \dots\dots''} \quad \quad \quad \times \quad \dots\dots \\
 \hline
 \dots\dots^{\circ} \quad \dots\dots' \quad \dots\dots'' \\
 \dots\dots^{\circ} \quad \dots\dots' \quad \dots\dots'' \\
 \phantom{\dots\dots^{\circ} \quad \dots\dots' \quad \dots\dots''} \quad \quad \quad \\
 \phantom{\dots\dots^{\circ} \quad \dots\dots' \quad \dots\dots''} \quad \quad \quad \\
 \phantom{\dots\dots^{\circ} \quad \dots\dots' \quad \dots\dots''} \quad \quad \quad \\
 + \quad \phantom{\dots\dots^{\circ} \quad \dots\dots' \quad \dots\dots''} \quad \quad \quad \\
 \hline
 \dots\dots^{\circ} \quad \dots\dots' \quad \dots\dots''
 \end{array}$$

3.2. Multiplica: $20^{\circ} 40' 55''$ por 3

$$\begin{array}{r}
 \dots\dots^{\circ} \quad \dots\dots' \quad \dots\dots'' \\
 \phantom{\dots\dots^{\circ} \quad \dots\dots' \quad \dots\dots''} \quad \quad \quad \times \quad \dots\dots \\
 \hline
 \dots\dots \quad \dots\dots \quad \dots\dots \\
 \dots\dots \quad \dots\dots \quad \dots\dots \\
 \quad \quad \quad \\
 \quad \quad \quad \\
 + \quad \quad \quad \quad \\
 \hline
 \dots\dots^{\circ} \quad \dots\dots' \quad \dots\dots''
 \end{array}$$

3.3. Multiplica: 45° 30'' por 8

$$\begin{array}{r}
 \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \\
 \times \quad \dots\dots \\
 \hline
 \dots\dots \quad \dots\dots \quad \dots\dots \\
 \dots\dots \quad \dots\dots \quad \dots\dots \\
 \dots\dots \quad \dots\dots \quad \dots\dots \\
 \dots\dots \quad \dots\dots \quad \dots\dots \\
 \dots\dots \quad \dots\dots \quad \dots\dots \\
 + \\
 \hline
 \dots\dots^\circ \quad \dots\dots' \quad \dots\dots''
 \end{array}$$

Ficha 4. División de ángulos

4.1. Divide 42° 36' 24'' entre 3:

$$\begin{array}{r}
 \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \quad \left| \dots\dots \right. \\
 \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \\
 \hline
 \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \\
 \hline
 \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \\
 \hline
 \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots
 \end{array}$$

4.2. Divide 47° 10' 25'' entre 23:

$$\begin{array}{r}
 \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \quad \left| \dots\dots \right. \\
 \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \\
 \hline
 \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \\
 \hline
 \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \\
 \hline
 \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots
 \end{array}$$

4.3. Divide 57° 35'' entre 5:

$$\begin{array}{r}
 \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \quad \left| \dots\dots \right. \\
 \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots^\circ \quad \dots\dots' \quad \dots\dots'' \\
 \hline
 \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \\
 \hline
 \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \\
 \hline
 \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots \quad \dots\dots
 \end{array}$$