

La Loi de Distributivité
Mathématiques 9

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Trouvez la valeur de l'inconnu en utilisant la Loi de Distributivité.

<p>1. $7(p-3) = 217$</p> $\begin{array}{r} 7p - 21 = 217 \\ +21 \quad +21 \\ \hline 7p = 238 \\ \frac{7}{7} \quad \frac{7}{7} \\ p = 34 \end{array}$	<p>2. $5(3x+7) = 80$</p> $\begin{array}{r} 15x + 35 = 80 \\ -35 \quad -35 \\ \hline 15x = 45 \\ \frac{15}{15} \quad \frac{45}{15} \\ x = 3 \end{array}$
<p>3. $5(x-4) = 3(x+18)$</p> $\begin{array}{r} 5x - 20 = 3x + 54 \\ +20 \quad +20 \\ \hline 5x = 3x + 74 \\ -3x \quad -3x \\ \hline 2x = 74 \quad x = 37 \end{array}$	<p>4. $4(y+6) = 2(y-33)$</p> $\begin{array}{r} 4y + 24 = 2y - 66 \\ -2y \quad -2y \\ \hline 2y = -90 \\ \frac{2y}{2} = \frac{-90}{2} \quad y = -45 \end{array}$
<p>5. $6(m+8) = 2(m-4)$</p> $\begin{array}{r} 6m + 48 = 2m - 8 \\ -2m \quad -2m \\ \hline 4m + 48 = -8 \\ -48 \quad -48 \\ \hline 4m = -56 \\ \frac{4m}{4} = \frac{-56}{4} \\ m = -14 \end{array}$	<p>6. $3(2h-8) = 4(h+7)$</p> $\begin{array}{r} 6h - 24 = 4h + 28 \\ +24 \quad +24 \\ \hline 6h = 4h + 52 \\ -4h \quad -4h \\ \hline 2h = 52 \\ \frac{2h}{2} = \frac{52}{2} \quad h = 26 \end{array}$
<p>7. $8(2n-6) = 3(5n+23)$</p> $\begin{array}{r} 16n - 48 = 15n + 69 \\ -15n \quad -15n \\ \hline n - 48 = 69 \\ +48 \quad +48 \\ \hline n = 117 \end{array}$	<p>8. $5(4m+9) = 7(2m-3)$</p> $\begin{array}{r} 20m + 45 = 14m - 21 \\ -14m \quad -14m \\ \hline 6m + 45 = -21 \\ -45 \quad -45 \\ \hline 6m = -66 \\ \frac{6m}{6} = \frac{-66}{6} \quad m = -11 \end{array}$
<p>9. $-2(3x+8) = 4(2x-9)$</p> $\begin{array}{r} -6x - 16 = 8x - 36 \\ +6x \quad +6x \\ \hline -16 = 14x - 36 \\ +36 \quad +36 \\ \hline 20 = 14x \\ \frac{20}{14} = \frac{14x}{14} \\ \frac{10}{7} = x \end{array}$	<p>10. $3(6t-5) = 8(7-4t)$</p> $\begin{array}{r} 18t - 15 = 56 - 32t \\ -18t \quad -18t \\ \hline -15 = 56 - 50t \\ -56 \quad -56 \\ \hline -71 = -50t \\ \frac{-71}{-50} = \frac{-50t}{-50} \\ \frac{71}{50} = t \end{array}$