

1. Évaluez les expressions

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|---|---|
| a) $5a + 6$, si $a = 3$ 21 | d) $4(k + 5)$, si $k = 19$ 96 |
| b) $18 - \frac{e}{2}$, si $e = -6$ 21 | e) $23 - 4n$, si $n = -5$ 43 |
| c) $\frac{p+6}{2}$, si $p = 20$ 13 | f) $\frac{5h+7}{3}$, si $h = 4$ 9 |

2. Les équations simples: Trouvez l'inconnu.

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| a) $4y = 108$ $y = 27$ | d) $f - 36 = -21$ $f = 15$ |
| b) $62 + j = 109$ $j = 47$ | e) $-5m = 119$ $m = -23,8$ |
| c) $22 = \frac{b}{5}$ $b = 110$ | f) $m - 17 = 290$ $m = 307$ |

3. Les équations à deux étapes: Trouvez l'inconnu.

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| a) $7y + 8 = 57$ $y = 7$ | d) $\frac{x}{3} + 14 = 102$ $x = 264$ |
| b) $9g - 21 = -49$ $g = \frac{-28}{9} = -3\frac{1}{9}$ | e) $\frac{y}{5} - 2 = -10$ $y = -40$ |
| c) $81 - 4t = 60$ $-4t = -21$ $\frac{-4t}{-4} = \frac{-21}{-4}$ $t = 2\frac{1}{4}$ ou $5\frac{1}{4}$ | f) $9 - \frac{p}{2} = 18$ $p = -18$ |

4. Les équations aux plusieurs étapes: Trouvez l'inconnu

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| <p>a) $5x + 19 = 4x + 77$</p> $\boxed{x = 58}$ | <p>i) $2(k + 4) = 4(k + 12)$</p> $\begin{aligned} 2k + 8 &= 4k + 48 \\ -2k - 48 &= -2k - 48 \\ \hline -40 &= 2k \end{aligned}$ $\boxed{k = -20}$ |
| <p>b) $6y + 88 = 4y + 56$</p> $\begin{aligned} -4y - 88 &= -4y - 88 \\ \hline 2y &= -32 \end{aligned}$ $\rightarrow \frac{2y}{2} = \frac{-32}{2}$ $\boxed{y = -16}$ | <p>j) $7(p + 5) = 5(p - 3)$</p> $\boxed{p = -2.5}$ |
| <p>c) $9m - 48 = 72 - 3m$</p> $\begin{aligned} +3m + 48 &= +48 + 3m \\ \hline 12m &= 120 \\ \frac{12m}{12} &= \frac{120}{12} \end{aligned}$ $\boxed{m = 10}$ | <p>k) $6(2m + 17) = 2(7m - 4)$</p> $\begin{aligned} 12m + 102 &= 14m - 8 \\ -12m + 8 &= -12m + 8 \\ \hline 110 &= 2m \\ \frac{110}{2} &= \frac{2m}{2} \end{aligned}$ $\boxed{55 = m}$ |
| <p>d) $9 - 5w = 131 - 3w$</p> $\begin{aligned} -131 + 5w &= -131 + 5w \\ \hline -122 &= 2w \\ \frac{-122}{2} &= \frac{2w}{2} \end{aligned}$ $\boxed{-61 = w}$ | <p>l) $2(3w + 6) = 8(8 - w)$</p> $\begin{aligned} 6w + 12 &= 64 - 8w \\ +8w - 12 &= -12 + 8w \\ \hline 14w &= 52 \\ \frac{14w}{14} &= \frac{52}{14} \end{aligned}$ $\boxed{w = 3 \frac{5}{7}}$ |
| <p>e) $4(e + 2) = 28$</p> | <p>m) $8x - 6 + 4x + 5 = 71$</p> |
| <p>f) $5(2x - 7) = 90$</p> | <p>n) $9 - 4c + 6c - 3 = 19 + 21$</p> |
| <p>g) $2(3b - 9) = 306$</p> | <p>o) $12a - 1 - 4a + 9 = 2a + 2a - 32$</p> |
| <p>h) $8(7 - 2c) = 24$</p> | <p>p) $7 - z + 11 - 3z = 9z - 8z + 23 + 5$</p> |