

1 Solve the following linear equations.

a $a + 7 = 15$

b $y + 12 = 23$

c $x + 4 = 14$

d $6 + g = 13$

e $7 + w = 3$

f $11 + z = -2$

g $b - 5 = 4$

h $m - 9 = 9$

i $c - 6 = 15$

j $12 - q = 5$

k $8 - h = 2$

l $-3 = n - (-2)$

2 Solve the following linear equations.

a $5n = 15$

b $6x = 30$

c $3c = -12$

d $2b = 15$

e $4m = -21$

f $-25 = 6b$

g $\frac{s}{2} = 8$

h $\frac{y}{5} = 6$

i $\frac{a}{11} = -7$

j $12 = \frac{g}{2}$

k $\frac{c}{-15} = -3$

l $3 = \frac{k}{-3}$

3 Eliza was required to solve the following equation on the blackboard. This was her solution.

$$6y + 5 = 7$$

$$6y = 12$$

$$y = 2$$

- Where is the error in Eliza's working?
- What is the correct solution to the equation?
- Check your solution by substituting your answer into the equation.



4 Solve the following linear equations. All solutions are integers.

a $5w + 4 = 29$

b $2t + 6 = 12$

c $7x - 6 = 22$

d $5y - 10 = -15$

e $9m - 2 = -11$

f $12 = 3a - 9$

g $5 + 2e = 13$

h $4 + 3b = 7$

i $32 = 17 - 3k$

j $16 = 10 + 2w$

k $70 - 10d = 80$

l $98 = 38 - 10z$