4. What is the solution of the equation $\frac{6x}{x+4}+4=\frac{2x+2}{x-1}$?

(A) $x=-1$

Incorrect. While -1 makes the numerator 0, it is not a solution to the equation.

(B) $x=0$ *or* $x=-1$

Incorrect. Neither of these values are solutions to the equation.

(C) $x=\frac{-3}{2}$ *or* $x=2$

Correct. Your solution should have been similar to:

$$\frac{6x}{x+4}+4=\frac{2x+2}{x-1}$$

$$(x+4)(x-1)\left[\frac{6x}{x+4}\right]+(x+4)(x-1)[4]=(x+4)(x-1)\left[\frac{2x+2}{x-1}\right]$$

$$6x(x-1)+4(x+4)(x-1)=(x+4)(2x+2)$$

$$6x^2-6x+4\left(x^2+3x-4\right)=2x^2+10x+8$$

$$6x^2-6x+4x^2+12x-16=2x^2+10x+8$$

$$10x^2+6x-16=2x^2+10x+8$$

$$8x^2-4x-24=0$$

$$2x^2-x-6=0$$

$$(2x+3)(x-2)=0$$

$$x=2 \text{ or } x=-\frac{3}{2}$$

(D) $x\neq -4$ *or* $x\neq 1$

Incorrect. These are the values that would be excluded from the solution set, but they are not the solutions to the equation.