10.20.15

We need some fraction practice. Please solve the following equations for x. (no decimals)

$$\frac{2x+4}{3x-1}=\frac{1}{2}$$

$1(3x-1)=2(2x+4)$

$3x-1=4x+8$

$+1 \quad +1$

$3x=4x+9$

$-4x \quad -4x$

$-x=9$

$-1 \quad -1$

$x=-9$

$$\frac{1}{5}\left(\frac{x}{2}+\frac{3}{4}\right)=\frac{1}{4}$$

$\frac{1}{5}\left(\frac{2x}{4}+\frac{3}{4}\right)=\frac{1}{4}$

$\frac{1}{5}\left(\frac{2x+3}{4}\right)=\frac{1}{4}$

$\frac{2x+3}{20}=\frac{1}{4}$

$1(20)=4(2x+3)$

$20=8x+12$

$-12 \quad -12$

$\frac{8}{8}=\frac{8x}{8}$

$1=x$