Solve each proportion. Leave your answer as a fraction in simplest form.

13) $\dfrac{9}{8} = \dfrac{k+6}{6}$

14) $\dfrac{2}{10} = \dfrac{4}{a-3}$

15) $\dfrac{10}{p+2} = \dfrac{4}{3}$

16) $\dfrac{4}{6} = \dfrac{8}{x-1}$

17) $\dfrac{m}{8} = \dfrac{m+7}{9}$

18) $\dfrac{n}{n+1} = \dfrac{3}{5}$

19) $\dfrac{9}{4} = \dfrac{r-10}{r}$

20) $\dfrac{x+6}{x} = \dfrac{10}{7}$

21) $\dfrac{n-9}{n+5} = \dfrac{7}{4}$

22) $\dfrac{6}{b+9} = \dfrac{4}{b+5}$

23) $\dfrac{8}{3} = \dfrac{v-9}{7v+4}$

24) $\dfrac{8}{5x-4} = \dfrac{6}{x+5}$

Critical thinking questions:

25) Do you think that a person's age and the amount they eat each day are basically in proportion?

Solve each proportion. Leave your answer as a fraction in simplest form.

13) $\dfrac{9}{8} = \dfrac{k+6}{6}$

$\left\{\dfrac{3}{4}\right\}$

14) $\dfrac{2}{10} = \dfrac{4}{a-3}$

$\{23\}$

15) $\dfrac{10}{p+2} = \dfrac{4}{3}$

$\left\{\dfrac{11}{2}\right\}$

16) $\dfrac{4}{6} = \dfrac{8}{x-1}$

$\{13\}$

17) $\dfrac{m}{8} = \dfrac{m+7}{9}$

$\{56\}$

18) $\dfrac{n}{n+1} = \dfrac{3}{5}$

$\left\{\dfrac{3}{2}\right\}$

19) $\dfrac{9}{4} = \dfrac{r-10}{r}$

$\{-8\}$

20) $\dfrac{x+6}{x} = \dfrac{10}{7}$

$\{14\}$

21) $\dfrac{n-9}{n+5} = \dfrac{7}{4}$

$\left\{-\dfrac{71}{3}\right\}$

22) $\dfrac{6}{b+9} = \dfrac{4}{b+5}$

$\{3\}$

23) $\dfrac{8}{3} = \dfrac{v-9}{7v+4}$

$\left\{-\dfrac{59}{53}\right\}$

24) $\dfrac{8}{5x-4} = \dfrac{6}{x+5}$

$\left\{\dfrac{32}{11}\right\}$

Critical thinking questions:

25) Do you think that a person's age and the amount they eat each day are basically in proportion?

No, a 60-year old doesn't eat six times that of a 10-year old.