Unit A - Problem Set 1 Name_____

Solving Proportions

Date_____ Period____

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

1) $\frac{6}{2} = \frac{4}{p}$

2) $\frac{4}{k} = \frac{8}{2}$

3) $\frac{n}{4} = \frac{8}{7}$

4) $\frac{5}{3} = \frac{x}{4}$

5) $\frac{m}{5} = \frac{7}{2}$

6) $\frac{7}{4} = \frac{r}{5}$

7) $\frac{7}{6} = \frac{5}{x}$

8) $\frac{6}{5} = \frac{2}{5n}$

Solve each proportion. Round your answers to the nearest hundredth.

9) $\frac{7.7}{3.6} = \frac{2.3}{b}$

10) $\frac{v}{4.9} = \frac{5.4}{6.1}$

11) $\frac{6.3}{x} = \frac{2.56}{9.3}$

12) $\frac{3.4}{x} = \frac{2.17}{7.7}$

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

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

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

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

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

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

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

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

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

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

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

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

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

Critical thinking questions:

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

Kuta Software - Infinite Geometry Name_____

Solving Proportions

Date_____ Period____

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

1) $\frac{6}{2} = \frac{4}{p}$

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

2) $\frac{4}{k} = \frac{8}{2}$

$\{1\}$

3) $\frac{n}{4} = \frac{8}{7}$

$\left\{\frac{32}{7}\right\}$

4) $\frac{5}{3} = \frac{x}{4}$

$\left\{\frac{20}{3}\right\}$

5) $\frac{m}{5} = \frac{7}{2}$

$\left\{\frac{35}{2}\right\}$

6) $\frac{7}{4} = \frac{r}{5}$

$\left\{\frac{35}{4}\right\}$

7) $\frac{7}{6} = \frac{5}{x}$

$\left\{\frac{30}{7}\right\}$

8) $\frac{6}{5} = \frac{2}{5n}$

$\left\{\frac{1}{3}\right\}$

Solve each proportion. Round your answers to the nearest hundredth.

9) $\frac{7.7}{3.6} = \frac{2.3}{b}$

$\{1.07\}$

10) $\frac{v}{4.9} = \frac{5.4}{6.1}$

$\{4.33\}$

11) $\frac{6.3}{x} = \frac{2.56}{9.3}$

$\{22.88\}$

12) $\frac{3.4}{x} = \frac{2.17}{7.7}$

$\{12.06\}$

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

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

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

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

$\{23\}$

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

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

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

$\{13\}$

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

$\{56\}$

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

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

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

$\{-8\}$

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

$\{14\}$

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

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

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

$\{3\}$

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

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

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

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

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.