Solving Proportions

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

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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?

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

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

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

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

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.

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

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{23}

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$$\{13\}$$

17)
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18)
$$\frac{n}{n+1} = \frac{3}{5}$$

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

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

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

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

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

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

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

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

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

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

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.