

31: More Solving Proportions and Similarity

Name: _____

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

1 $\frac{9}{8} = \frac{k+6}{6}$

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

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

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

5 $\frac{m}{8} = \frac{m+7}{9}$

6 $\frac{n}{n+1} = \frac{3}{5}$

7 $\frac{9}{4} = \frac{r-10}{r}$

8 $\frac{x+6}{x} = \frac{10}{7}$

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

10 $\frac{6}{b+9} = \frac{4}{b+5}$

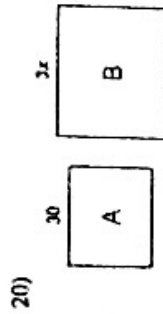
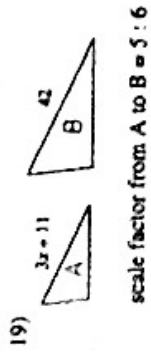
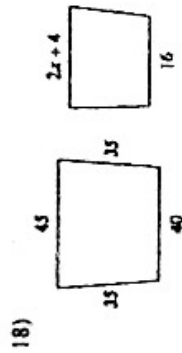
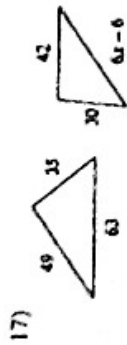
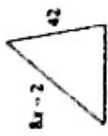
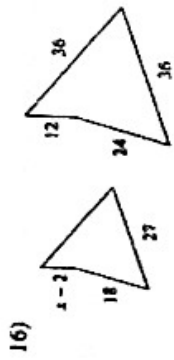
11 $\frac{8}{3} = \frac{v-9}{7v+4}$

12 $\frac{8}{5x-4} = \frac{6}{x+5}$

Critical thinking questions:

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

Solve for x . The polygons in each pair are similar.



scale factor from A to B = 5 : 6

