Algebra Foundations Name_____ ID: 1

Quiz 11 Practice Work ODDS first!

Date_____ Period____

Solve each problem by setting up an equation. Convert percents to decimals. Use a calculator and round to the nearest tenth (one decimal place.)

Remember that 'of' means 'multiply' and 'is' means 'equals.' Use *x* for the unknown, or the 'what.'

1) 41% of 55 is what?

2) What is 7% of 25.3?

3) What percent of 107 is 92?

4) 30 is what percent of 74?

5) 10% of 127 is what?

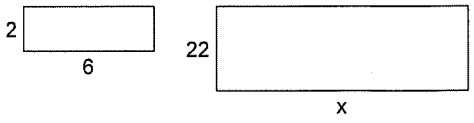
6) What is 8% of 59?

7) 4% of what is 1?

8) 49 is 27% of what?

Each pair of figures is similar. Set up a proportion and find the missing side.

9)



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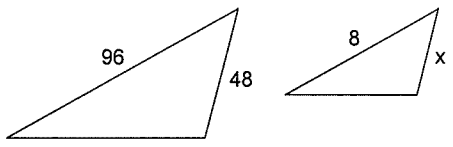

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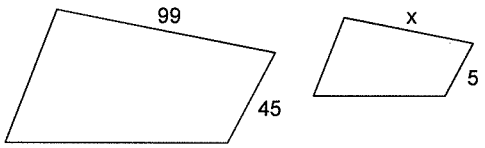

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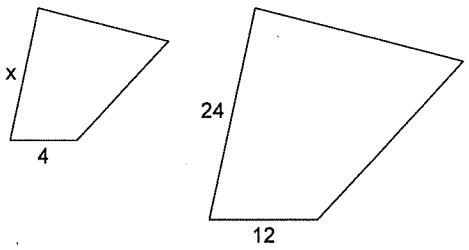

Solve each proportion. Use a calculator and expect some decimal answers.

13) $\frac{6}{2} = \frac{n}{7}$

14) $\frac{8}{6} = \frac{2}{x}$

15) $\frac{10}{p-10} = \frac{2}{7}$

16) $\frac{3}{10} = \frac{v+8}{2}$

17) $\frac{9}{10} = \frac{r-1}{r}$

18) $\frac{4}{x} = \frac{10}{x-8}$

19) $\frac{5}{9} = \frac{x-9}{x-7}$

20) $\frac{p-6}{7} = \frac{p-10}{5}$

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Date_____ Period____

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Remember that 'of' means 'multiply' and 'is' means 'equals.' Use *x* for the unknown, or the 'what.'

1) 41% of 55 is what?

22.6

2) What is 7% of 25.3?

1.77

3) What percent of 107 is 92?

86%

4) 30 is what percent of 74?

40.5%

5) 10% of 127 is what?

12.7

6) What is 8% of 59?

4.7

7) 4% of what is 1?

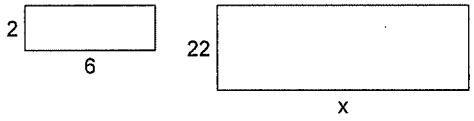
25

8) 49 is 27% of what?

181.5

Each pair of figures is similar. Set up a proportion and find the missing side.

9)



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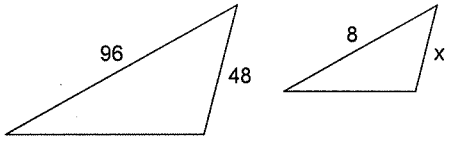
10)



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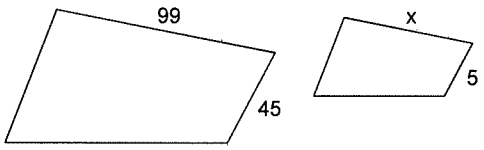
11) 

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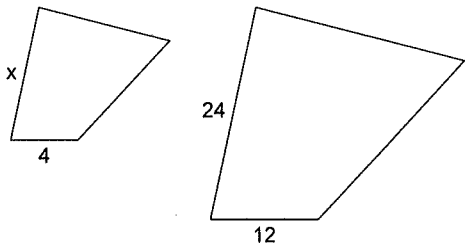
12) 

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Solve each proportion. Use a calculator and expect some decimal answers.

13) $\frac{6}{2}=\frac{n}{7}$

{21}

14) $\frac{8}{6}=\frac{2}{x}$

{1.5}

15) $\frac{10}{p-10}=\frac{2}{7}$

{45}

16) $\frac{3}{10}=\frac{v+8}{2}$

{–7.4}

17) $\frac{9}{10}=\frac{r-1}{r}$

{10}

18) $\frac{4}{x}=\frac{10}{x-8}$

{–5.33}

19) $\frac{5}{9}=\frac{x-9}{x-7}$

{11.5}

20) $\frac{p-6}{7}=\frac{p-10}{5}$

{20}