Proportions

Find the value of *x*.

Use the butterfly method to check if the ratios are equal.

1) $\frac{1}{3} = \frac{5}{x}$

2) $\frac{2}{5} = \frac{x}{40}$

3) $\frac{4}{7} = \frac{32}{x}$

4) $\frac{5}{9} = \frac{x}{54}$

Hint: You may need to switch the order or divide.

Use the butterfly method to check if the ratios are equal.

5) $\frac{x}{8} = \frac{3}{4}$

6) $\frac{2}{x} = \frac{12}{18}$

7) $\frac{x}{5} = \frac{63}{45}$

8) $\frac{5}{9} = \frac{x}{54}$

Hint: Simplify the first ratio.

Use the butterfly method to check if the ratios are equal.

9) $\frac{2}{8} = \frac{x}{12}$

10) $\frac{12}{18} = \frac{14}{x}$

11) $\frac{3}{15} = \frac{8}{x}$

12) $\frac{9}{12} = \frac{x}{20}$

You many need to use one of the hints above.

Use the butterfly method to check if the ratios are equal.

13) $\frac{x}{3} = \frac{28}{42}$

14) $\frac{5}{x} = \frac{18}{36}$

15) $\frac{2}{5} = \frac{x}{35}$

16) $\frac{x}{9} = \frac{21}{27}$

17) $\frac{x}{6} = \frac{13}{39}$

18) $\frac{6}{7} = \frac{x}{49}$

19) $\frac{22}{55} = \frac{18}{x}$

20) $\frac{x}{35} = \frac{48}{60}$