NAME _____ DATE _____

Chapter Test C

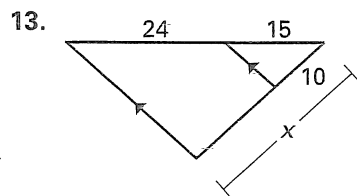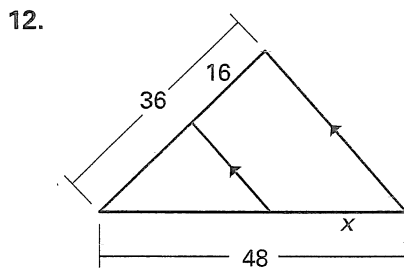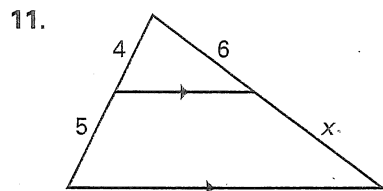For use after Chapter 8

Solve the proportion.

1. $\dfrac{3}{4} = \dfrac{x}{24}$

2. $\dfrac{6}{17} = \dfrac{2x}{68}$

3. $\dfrac{x+2}{x} = \dfrac{7}{6}$

4. $\dfrac{2}{5} = \dfrac{x}{x+15}$

5. $\dfrac{5b}{8+b} = \dfrac{4}{3}$
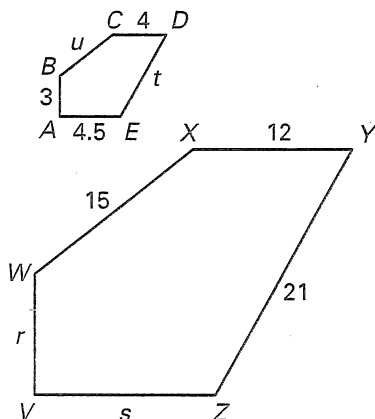
6. $\dfrac{2c-15}{7} = \dfrac{2c}{9}$

Complete the sentence.

7. If $\dfrac{2}{3} = \dfrac{a}{b}$, then $\dfrac{b}{3} = $ ___?___ .

8. If $\dfrac{5}{8} = \dfrac{m}{n}$, then $\dfrac{10}{16} = $ ___?___ .

9. If $\dfrac{7}{p} = \dfrac{3}{q}$, then $\dfrac{7+p}{p} = $ ___?___ .

10. If $\dfrac{9+m}{m} = \dfrac{9}{3}$, then $\dfrac{9}{m} = $ ___?___ .

In Exercises 11–13, use the diagram to find x.

11.

12.

13.

In Exercises 14–18, ABCDE~ VWXYZ.

14. Find the scale factor of *ABCDE* to *VWXYZ*.

15. Find the scale factor of *VWXYZ* to *ABCDE*.

16. Find the values of *r*, *s*, *t*, and *u*.

17. Find the perimeter of each polygon.

18. Find the ratio of the perimeter of *ABCDE* to the perimeter of *VWXYZ*.

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. *s =* _____

   t = _____

   u = _____

17. *ABCDE:* _____

   VWXYZ: _____

18. _____