

Chapter Test B

For use after Chapter 8

Solve the proportion.

1. $\frac{x}{3} = \frac{4}{2}$

2. $\frac{5}{x} = \frac{3}{6}$

3. $\frac{x+2}{2} = \frac{3+3}{3}$

4. $\frac{x+1}{2} = \frac{3}{4}$

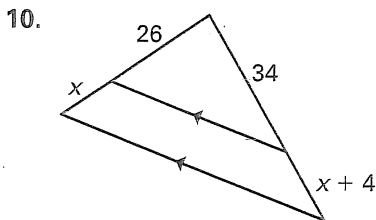
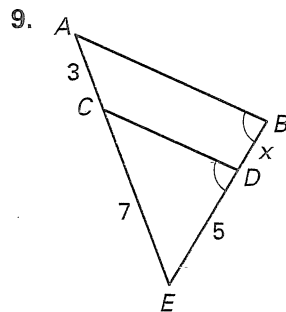
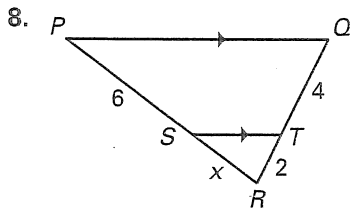
Complete the sentence.

5. If $\frac{5}{3} = \frac{s}{t}$, then $\frac{t}{3} =$?

6. If $\frac{2}{9} = \frac{m}{n}$, then $\frac{9}{2} =$?

7. If $\frac{5}{p} = \frac{4}{q}$, then $\frac{5+p}{p} = \frac{?}{q}$.

In Exercises 8–10, use the diagram to find x .



Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. $s =$ _____
 $t =$ _____
 $u =$ _____
14. $ABCD:$ _____
 $WXYZ:$ _____
15. _____

In Exercises 11–15, $ABCD \sim WXYZ$.

11. Find the scale factor of $ABCD$ to $WXYZ$.
12. Find the scale factor of $WXYZ$ to $ABCD$.
13. Find the values of s , t , and u .
14. Find the perimeter of each polygon.
15. Find the ratio of the perimeter of $ABCD$ to the perimeter of $WXYZ$.

