Name: _____

Similar Triangles Missing Sides

The triangles are similar. Find the missing side lengths.

Learn: Similar shapes have matching sides in the same ratio. Find the scale factor from one matching pair, then use it on the missing side.

Example: Triangle ABC ~ triangle DEF. AB = 5, BC = 12, CA = 13 and DE = 10. Find EF and FD.

Answer: EF = 24, FD = 26

1. Triangle ABC ~ triangle DEF. AB = 4, BC = 6, CA = 7 and DE = 8. Find EF and FD.

   Answer: _____

2. Triangle ABC ~ triangle DEF. AB = 6, BC = 8, CA = 10 and DE = 24. Find EF and FD.

   Answer: _____

3. Triangle ABC ~ triangle DEF. AB = 5, BC = 7, CA = 9 and DE = 20. Find EF and FD.

   Answer: _____

4. Triangle ABC ~ triangle DEF. AB = 4, BC = 6, CA = 7 and DE = 12. Find EF and FD.

   Answer: _____

5. Triangle ABC ~ triangle DEF. AB = 5, BC = 7, CA = 9 and DE = 10. Find EF and FD.

   Answer: _____

6. Triangle ABC ~ triangle DEF. AB = 8, BC = 15, CA = 17 and DE = 16. Find EF and FD.

   Answer: _____

7. Triangle ABC ~ triangle DEF. AB = 2, BC = 5, CA = 6 and DE = 4. Find EF and FD.

   Answer: _____

8. Triangle ABC ~ triangle DEF. AB = 6, BC = 8, CA = 10 and DE = 9. Find EF and FD.

   Answer: _____

Name: **ANSWER KEY**

Similar Triangles Missing Sides

The triangles are similar. Find the missing side lengths.

Learn: Similar shapes have matching sides in the same ratio. Find the scale factor from one matching pair, then use it on the missing side.

Example: Triangle ABC ~ triangle DEF. AB = 5, BC = 12, CA = 13 and DE = 10. Find EF and FD.

Answer: EF = 24, FD = 26

1. Triangle ABC ~ triangle DEF. AB = 4, BC = 6, CA = 7 and DE = 8. Find EF and FD.

   Answer: EF = 12, FD = 14

2. Triangle ABC ~ triangle DEF. AB = 6, BC = 8, CA = 10 and DE = 24. Find EF and FD.

   Answer: EF = 32, FD = 40

3. Triangle ABC ~ triangle DEF. AB = 5, BC = 7, CA = 9 and DE = 20. Find EF and FD.

   Answer: EF = 28, FD = 36

4. Triangle ABC ~ triangle DEF. AB = 4, BC = 6, CA = 7 and DE = 12. Find EF and FD.

   Answer: EF = 18, FD = 21

5. Triangle ABC ~ triangle DEF. AB = 5, BC = 7, CA = 9 and DE = 10. Find EF and FD.

   Answer: EF = 14, FD = 18

6. Triangle ABC ~ triangle DEF. AB = 8, BC = 15, CA = 17 and DE = 16. Find EF and FD.

   Answer: EF = 30, FD = 34

7. Triangle ABC ~ triangle DEF. AB = 2, BC = 5, CA = 6 and DE = 4. Find EF and FD.

   Answer: EF = 10, FD = 12

8. Triangle ABC ~ triangle DEF. AB = 6, BC = 8, CA = 10 and DE = 9. Find EF and FD.

   Answer: EF = 12, FD = 15