

Sides of polygons having the same perimeter: Worksheet 1.1

Name Date Score

1. A wire is first bent into the shape of a rectangle with width 6 cm and 14 cm length. Then the wire is unbent and reshaped into a square. What is the length of a side of the square?
2. A wire is first bent into the shape of a rectangle with width 6 cm and 12 cm length. Then the wire is unbent and reshaped into a triangle. What is the length of a side of the triangle, if all its sides are equal?
3. A wire is first bent into the shape of a rectangle with width 7 cm and 13 cm length. Then the wire is unbent and reshaped into a square. What is the length of a side of the square?
4. A wire is first bent into the shape of a rectangle with width 6 cm and 9 cm length. Then the wire is unbent and reshaped into a triangle. What is the length of a side of the triangle, if all its sides are equal?
5. A wire is first bent into the shape of a rectangle with width 10 cm and 12 cm length. Then the wire is unbent and reshaped into a square. What is the length of a side of the square?
6. A wire is first bent into the shape of a rectangle with width 11 cm and 14 cm length. Then the wire is unbent and reshaped into a square. What is the length of a side of the square?
7. A wire is first bent into the shape of a rectangle with width 7 cm and 14 cm length. Then the wire is unbent and reshaped into a triangle. What is the length of a side of the triangle, if all its sides are equal?
8. A wire is first bent into the shape of a rectangle with width 5 cm and 10 cm length. Then the wire is unbent and reshaped into a square. What is the length of a side of the square?
9. A wire is first bent into the shape of a rectangle with width 8 cm and 10 cm length. Then the wire is unbent and reshaped into a triangle. What is the length of a side of the triangle, if all its sides are equal?
10. A wire is first bent into the shape of a rectangle with width 12 cm and 13 cm length. Then the wire is unbent and reshaped into a square. What is the length of a side of the square?



Solutions: Worksheet 1.1

1. $s = 10 \text{ cm}$
2. $s = 12 \text{ cm}$
3. $s = 10 \text{ cm}$
4. $s = 10 \text{ cm}$
5. $s = 11 \text{ cm}$
6. $s = 12.5 \text{ cm}$
7. $s = 14 \text{ cm}$
8. $s = 10 \text{ cm}$
9. $s = 12 \text{ cm}$
10. $s = 12.5 \text{ cm}$

