

## Sides of polygons having the same perimeter: Worksheet 1.3

Name ..... Date ..... Score .....

1. A wire is first bent into the shape of a rectangle with width 18 cm and 22 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 18 cm and 24 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 11 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 9 cm and 15 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 15 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 8 cm and 16 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 13 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 16 cm length. Then the wire is unbent and reshaped into a square. What is the length of a side of the square?



## Solutions: Worksheet 1.3

1.  $s = 20 \text{ cm}$
2.  $s = 28 \text{ cm}$
3.  $s = 9 \text{ cm}$
4.  $s = 10 \text{ cm}$
5.  $s = 12 \text{ cm}$
6.  $s = 13 \text{ cm}$
7.  $s = 14 \text{ cm}$
8.  $s = 12 \text{ cm}$
9.  $s = 14 \text{ cm}$
10.  $s = 14 \text{ cm}$

