

Word problems — Quadratic equations

Name: _____

Date: _____

Read each problem. Write the answer.

- 1 A rectangular garden plot has an area of 40 square meters. Its length is 6 meters more than its width.

Find its length and its width. ____

- 2 A rectangular plot of land covers 91 square meters. It is 6 meters longer than it is wide.

How wide is it, and how long? ____

- 3 A rectangular lawn covers 36 square meters. It is 5 meters longer than it is wide.

How wide is it, and how long? ____

- 4 A rectangular plot of land covers 285 square meters. It is 4 meters longer than it is wide.

How wide is it, and how long? ____



Word problems · Quadratic equations — Answer key

1. $x(x + 6) = 40$, so $x = 4$:
width 4 meters, length 10
meters

2. $x(x + 6) = 91$, so $x = 7$:
width 7 meters, length 13
meters

3. $x(x + 5) = 36$, so $x = 4$:
width 4 meters, length 9
meters

4. $x(x + 4) = 285$, so $x = 15$:
width 15 meters, length 19
meters