Practice worksheet | Quadratics and Parabolas

# Simple area and financial/application models

Name: _____ Date: _____

6 questions | 16 marks

**1.** A rectangle has width $x$ m and length $x + 3$ m. Write its area as an expanded expression. [2 marks]

**2.** A rectangle is $x$ m wide and $x + 3$ m long, with area $40\ \text{m}^2$. Find its dimensions. [3 marks]

**3.** Two consecutive positive integers have product 56. Find them. [3 marks]

**4.** A model gives revenue $R = n(10 - n)$. Find the revenue when $n = 3$. [2 marks]

**5.** For $R = n(10 - n)$, find whole-number counts giving revenue 24. [3 marks]

**6.** A cost model is $C = n^2 + 3n + 10$ dollars. Find the non-negative whole number of items when $C = 50$. [3 marks]