Practice worksheet | Real numbers

Exact answers versus approximations

Name: _____ Date: _____

6 questions | 14 marks

1. A square has area $23\ \text{m}^2$. Write its exact positive side. [2 marks]

2. Round $\sqrt{23}$ to two decimal places. [2 marks]

3. A circle has diameter 7 m. Give its exact circumference. [2 marks]

4. Round the circumference for diameter $7\ \text{m}$ to one decimal place. [2 marks]

5. A student uses 1.4 for $\sqrt{2}$ and obtains $10\sqrt{2} \approx 14$. Find the result to two decimal places without rounding early. [3 marks]

6. For radius 50 cm compare $C = 100\pi$ with $100(3.14)$. How much smaller is the second value, to two decimal places? [3 marks]