Practice worksheet | Surface area, volume and measurement

Interpreting precision and reasonable answers

Name: _____ Date: _____

6 questions | 13 marks

1. A cylinder has radius 4 cm and height 5 cm. Give its volume to one decimal place. [2 marks]

2. A calculated length is $\sqrt{50}$ m. Round it to two decimal places. [2 marks]

3. A square has a stated side length of 2.35 m. Calculate its perimeter. [2 marks]

4. A rectangular plot is 6.8 m by 4.2 m. Give its area to one decimal place. [2 marks]

5. A height is recorded as 1.20 m to the nearest 0.01 m. State the maximum rounding error in metres. [2 marks]

6. A student uses $\sqrt{2} \approx 1.4$ to calculate $10\sqrt{2}$ and reports 14.0 cm. Find the correct answer to one decimal place and explain the difference. [3 marks]