Practice worksheet | Measurement and scale

Evaluating assumptions and suitable precision

Name: _____ Date: _____

6 questions | 14 marks

1. Cable is sold in 2 m lengths. A job needs 7.1 m. Find the minimum number of lengths. [2 marks]

2. A closed cubic container has outside edge 12 cm. Its base, lid and four side walls are each 1 cm thick. Find its capacity in cm^3. [2 marks]

3. Lengths measured to 0.1 m give a calculated area 17.382946 m^2. Explain a limitation of reporting every digit. [3 marks]

4. Soil is delivered in 0.5 m^3 units. A garden needs 3.6 m^3. Find the minimum order and excess. [2 marks]

5. A cylinder is filled to 90% of its internal height. What factor adjusts full capacity? [2 marks]

6. A continuous-area model costs material at 19.80 dollars. Two whole sheets priced 12 dollars each are required. State actual purchase cost and explain. [3 marks]