3

SCIENTIFIC MEASUREMENT

Practice Problems

In your notebook, solve the following problems.

SECTION 3.1 MEASUREMENTS AND THEIR UNCERTAINTY

Using different rulers, Bruce and Pete each measure the length of the same object three times.

Bruce's three measurements are 19 cm, 20 cm, and 22 cm. Calculate the average value of his measurements and express the answer with the correct number of significant figures.

19 cm + 20 cm + 22 cm = 29 cm

Pete's three measurements are 20.9 cm, 21.0 cm, and 21.0 cm. Calculate the average value of his measurements and express the answer with the correct number of significant figures.

20,9 cm + 21.0 cm + 21.0 cm = 21.0 cm

 Multiply the answer to problem 1 by the answer to problem 2. Express the answer in scientific notation with the correct number of significant figures.

20 cmx 21.0 cm = 400 cm

4. Whose measurements are more precise?

Petes

The actual length of the object is 20 cm. Whose measurements are more accurate?

Bruce's

6. What is the error of Pete's average measurement?

(21.0-20) cm = 1 cm

7. What is the percent error of Pete's average measurement?

100 × 121.0-201 cm = 5%

Section 3 Measurements And Their Uncertainty Practice Problems

VM Jensen

Section 3 Measurements And Their Uncertainty Practice Problem	ns:
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