

Units and accuracy — How many digits to report

Name: _____

Date: _____



Circle the reading that the measuring tool could honestly give.

1 A ruler reads to the nearest 0.1 cm. Which reading could it not have given?

- a) 8.25 cm b) 8.2 cm c) 12.7 cm d) 5.0 cm

2 A stopwatch reads to the nearest 0.01 s. Which reading could it not have given?

- a) 8.76 s b) 12.05 s c) 11.271 s d) 10.90 s

3 A tape reads to the nearest inch. Which reading could it not have given?

- a) 18 in b) 72 in c) 31.5 in d) 45 in

4 A scale reads to the nearest 0.5 kg. Three boxes: 3.5, 6.5, 5.5 kg. What is the total?

- a) 15.50 kg b) 16 kg c) 12.0 kg d) 15.5 kg

5 A ruler reads to the nearest 0.1 cm. Three ribbons: 13.8, 9.4, 12.1 cm. What is the total?

- a) 35.30 cm b) 35.3 cm c) 35 cm d) 25.9 cm



Units and accuracy · How many digits to report — Answer key



1. A ruler reads to the nearest 0.1 cm. $\rightarrow$ 8.25 cm

2. A stopwatch reads to the nearest 0.01 s. $\rightarrow$ 11.271 s

3. A tape reads to the nearest inch. $\rightarrow$ 31.5 in

4. A scale reads to the nearest 0.5 kg. Three boxes: 3.5, 6.5, 5.5 kg. $\rightarrow$ 15.5 kg

5. A ruler reads to the nearest 0.1 cm. Three ribbons: 13.8, 9.4, 12.1 cm. $\rightarrow$ 35.3 cm