

1.8 Significant Digits - Day 2

Significant digits: digits used - excludes zeros at the end of an integer and beginning of a decimal.

Accuracy: number of significant digits in a measurement

★ Answer is a number

Precision: place value of the last significant digit in a measurement

★ Answer is a word

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Examples	Significant Digits	Precision	Accuracy
320 ft	2	tens	2
5,040 g	3	tens	3
0.03500 ml	4	hundred thousandths	4
0.345 in	3	thousandths	3
670,000 m	2	ten thousands	2
0.0809 lbs	3	ten thousandths	3
34,007 miles	5	ones	5
34.07 kg	4	hundredths	4
3,400 mm	2	hundreds	2

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1. Which of the following has an accuracy of 3?

- a. 3.04 3 b. 3.4 2
c. 0.02 1 d. 20 1

2. The precision of 53,400 is the?

- a. ones b. tens
c. hundreds d. thousands

3. How many significant digits does 0.03025 have?

- a. 3 b. 4
c. 5 d. 6

4. Which of the following has a precision of the thousandths?

- a. 2.500 thousandths b. 0.0250 ten thousandths
c. 0.25 hundredths d. 25,000 thousands

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HOMEWORK

Worksheet HW 1.8
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