

Place Value and Decimals: math test, Grade 5 – download the PDF

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Place value and words

/ 3 pts

Consider the number **80.036**.

- Write it in words. (1 pt)
- Give the value of the digit 6 and of the digit 3. (1 pt)
- The value of the 3 is how many times the value of the 6? Careful: compare **0.03** with **0.006**. (1 pt)

2 Powers of 10

/ 3 pts

- Write **10,000** using an exponent. (1 pt)
- Write **10^6** in standard form. (1 pt)
- Write **5×10^3** in standard form. (1 pt)

3 Powers of 10 and the decimal point

/ 4 pts

Calculate without a calculator.

- a. 0.74×10^2 (1 pt)
- b. 6.2×10^3 (1 pt)
- c. $915 \div 10^2$ (1 pt)
- d. $3.6 \div 10^3$ (1 pt)

4 Expanded form

/ 3 pts

- a. Write **52.407** in expanded form. (2 pts)
- b. Write $3 \times 100 + 1 \times 1 + 8 \times 0.01 + 5 \times 0.001$ in standard form. (1 pt)

5 Comparing and rounding

/ 4 pts

- a. Compare **2.608** and **2.68** with $<$, $>$ or $=$. (1 pt)
- b. Order from least to greatest: **0.35**, **0.305**, **0.5**, **0.053**. (1 pt)
- c. Round **18.2649** to the nearest tenth, then to the nearest hundredth. (2 pts)

6 Bakery problem

/ 3 pts

A bakery uses **0.45** kg of sugar for one batch of cookies.

- a. How many kilograms of sugar are needed for 10^2 batches? (1 pt)
- b. Convert that amount to grams. (1 pt)
- c. That amount is shared equally into 10^3 jars. How many kilograms go in each jar? (1 pt)



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