

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

Test solutions with the detailed point scale. Add up your points and spot what to review.

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

1 Place value and words

/ 3 pts

- (a) Eighty and thirty-six thousandths. (1 pt)
- (b) The 6 is in the thousandths place: **0.006**. The 3 is in the hundredths place: **0.03**. (1 pt)
- (c) **$0.03 = 10 \times 0.003$** , but compare with the 6: **$0.03 \div 0.006 = 5$** . The value of the 3 is 5 times the value of the 6. (1 pt)

2 Powers of 10

/ 3 pts

- (a) Four zeros: **$10,000 = 10^4$** . (1 pt)
- (b) **$10^6 = 1,000,000$** . (1 pt)
- (c) **$5 \times 1,000 = 5,000$** . (1 pt)

3**Powers of 10 and the decimal point****/ 4 pts**

- (a) Two places right: **74**. (1 pt)
- (b) Three places right: **6,200**. (1 pt)
- (c) Two places left: **9.15**. (1 pt)
- (d) Three places left with placeholder zeros: **0.0036**. (1 pt)

4**Expanded form****/ 3 pts**

- (a) **$52.407 = 5 \times 10 + 2 \times 1 + 4 \times 0.1 + 0 \times 0.01 + 7 \times 0.001$, or $50 + 2 + 0.4 + 0.007$** . (2 pts)
- (b) **$300 + 1 + 0.08 + 0.005 = 301.085$** . (1 pt)

5**Comparing and rounding****/ 4 pts**

- (a) Tenths match (6); hundredths **$0 < 8$** , so **$2.608 < 2.68$** . (1 pt)
- (b) **$0.053 < 0.305 < 0.35 < 0.5$** . (1 pt)
- (c) Nearest tenth: the hundredths digit is 6, so **18.3** (1 pt). Nearest hundredth: the thousandths digit is 4, so **18.26** (1 pt).

6**Bakery problem****/ 3 pts**

- (a) **$0.45 \times 100 = 45$ kg**. (1 pt)
- (b) **$45 \times 1,000 = 45,000$ g**. (1 pt)
- (c) **$45 \div 1,000 = 0.045$ kg per jar**. (1 pt)



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