

Place Value and Rounding: math test solutions, Grade 4 – 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

/ 4 pts

- a. The 6 is in the hundred thousands place: **600,000**. (1 pt)
- b. The 4 is in the thousands place: **4,000**. (1 pt)
- c. **604,372 = 600,000 + 4,000 + 300 + 70 + 2**. (1 pt)
- d. six hundred four thousand, three hundred seventy-two. (1 pt)

2 Standard form

/ 3 pts

- a. **290,041** (1 pt)
- b. **85,006** (1 pt)
- c. **410,300** (1 pt)

3 Compare and order

/ 4 pts

(a) (i) The tens digits differ: 0 is less than 8, so $52,408 < 52,480$. (1 pt) (ii) 100,000 has six digits and 99,999 has five, so $100,000 > 99,999$. (1 pt) (iii) $600,000 + 50 = 600,050$, and $600,050 < 600,500$. (1 pt)

(b) $37,280 < 37,820 < 38,702 < 38,720$. (1 pt)

4 Ten times as much

/ 3 pts

(a) $10 \times 6,000 = 60,000$. (1 pt)

(b) $900,000 = 10 \times 90,000$, so the blank is 90,000. (1 pt)

(c) The left 4 is worth 40,000 and the right 4 is worth 4,000, so it is worth 10 times as much. (1 pt)

5 Rounding

/ 4 pts

a. The ones digit is 7, so round up: 8,150. (1 pt)

b. The tens digit is 6, so round up: 25,500. (1 pt)

c. The thousands digit is 3, so round down: 670,000. (1 pt)

d. The ten thousands digit is 9, so round up: 400,000. (1 pt)

6 Bottle caps

/ 2 pts

(a) $12,640 \approx 13,000$ and $15,380 \approx 15,000$, so the total is about 28,000. (1 pt)

(b) Yes. 28,020 is very close to the estimate 28,000. (1 pt)



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