

Adding and Subtracting Within 1,000: math test solutions, Grade 3 – 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 Mental math

/ 4 pts

- a. $360 + 280 = 640$ (1 pt)
- b. $800 - 350 = 450$ (1 pt)
- c. $399 + 125 = 400 + 125 - 1 = 524$ (1 pt)
- d. $700 - 298 = 700 - 300 + 2 = 402$ (1 pt)

2 Standard algorithm: addition

/ 3 pts

a.

$$\begin{array}{r} 456 \\ + 278 \\ \hline 734 \end{array}$$

$$456 + 278 = 734 \text{ (1 pt)}$$

b.

$$\begin{array}{r} 385 \\ + 497 \\ \hline 882 \end{array}$$

$$385 + 497 = 882 \text{ (1 pt)}$$

c.

$$\begin{array}{r} 249 \\ + 356 \\ \hline 605 \end{array}$$

$$249 + 356 = 605 \text{ (1 pt)}$$

3 Standard algorithm: subtraction

/ 4 pts

a. $862 - 437 = 425$ (1 pt)

b. $540 - 276 = 264$ (1 pt)

c. $700 - 418 = 282$ (1 pt)

d. $913 - 575 = 338$ (1 pt)

4 Estimate and check

/ 3 pts

a. $487 \approx 500$ and $312 \approx 300$, so the estimate is $500 + 300 = 800$. (1 pt)

b. $487 + 312 = 799$. (1 pt)

c. $799 - 312 = 487$, which is the first number, so the sum is correct. (1 pt)

5 Word problems

/ 4 pts

- a. Add: $468 + 397 = 865$. (1 pt) The zoo had 865 visitors in all. (1 pt)
- b. Subtract: $920 - 548 = 372$. (1 pt) The farmer has 372 eggs left. (1 pt)

6 Find the error

/ 2 pts

Sam subtracted the smaller digit from the larger one in each column ($8 - 5 = 3$, $6 - 0 = 6$, $4 - 1 = 3$) instead of regrouping. (1 pt)

The correct answer is $405 - 168 = 237$. (1 pt)



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