

Grade 4 - Multistep Word Problems - Test Answer Key

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Use this answer key to score the test. Each solution shows the steps in order, and the scoring note tells how the points are awarded. Total: 20 points.

Grade 4 · Common Core State Standards: **4.OA.A.3**

Question 1 - Bakery trays [2 pts]

$$m = 6 \times 18 - 75. \quad 6 \times 18 = 108, \text{ and } 108 - 75 = 33.$$

33 muffins

Scoring: 1 point for a correct equation. 1 point for 33.

Question 2 - Beads in bags [2 pts]

$$96 \div 8 = 12, \text{ then } 12 + 5 = 17.$$

17 beads

Scoring: 1 point for 12 beads in each bag. 1 point for 17.

Question 3 - Camp cabins [2 pts]

$$100 \div 7 = 14 \text{ R } 2 \text{ because } 7 \times 14 = 98.$$

Two campers still need a bed, so round up.

15 cabins

Scoring: 1 point for 14 R 2. 1 point for rounding up to 15.

Question 4 - Estimate and solve [2 pts]

$$\text{Estimate: } 4 \times 40 + 20 = 180.$$

Exact: $4 \times 38 = 152$, and $152 + 17 = 169$.

about \$180.00 ; exactly \$169.00

Scoring: 1 point for the estimate. 1 point for the exact total.

Question 5 - Saving money [2 pts]

Sofia	\$45			
Brother	\$45	\$45	\$45	\$45

Five bars of \$45 in all.

Brother: $4 \times 45 = 180$.

Together: $45 + 180 = 225$.

\$225.00

Scoring: 1 point for \$180. 1 point for \$225.

Question 6 - Money left [2 pts]

$m = 120 - 36 - 3 \times 18$. $3 \times 18 = 54$; $120 - 36 = 84$; $84 - 54 = 30$.

\$30.00

Scoring: 1 point for a correct equation. 1 point for \$30.

Question 7 - Peach crates [3 pts]

Crates	48	48	48
Spoiled	25		

144 peaches, 25 spoiled.

a. $3 \times 48 = 144$. **144 peaches**

b. $144 - 25 = 119$. **119 peaches**

c. $119 \div 8 = 14$ R 7 because $8 \times 14 = 112$. **14 full bags; 7 peaches left over**

Scoring: 1 point for each part.

Question 8 - Is it reasonable? [3 pts]

a. $7 \times 40 + 20 = 280 + 20 = 300$. **about 300**

b. 400 is 100 more than the estimate, which is too far. Her answer is not reasonable.

c. $7 \times 38 = 266$, and $266 + 24 = 290$. **290**

Scoring: 1 point for each part.

Question 9 - Juice pouches [2 pts]

All pouches: $5 \times 36 = 180$.

Left: $180 - 148 = 32$.

Each team: $32 \div 4 = 8$.

8 pouches

Scoring: 1 point for 32 pouches left. 1 point for 8 pouches each.

Total
20 points