

Grade 4 - Dividing with Remainders - Test Answer Key

Common Core 4.NBT.B.6 · maths-pdf.fr/en/

Use this answer key to score the test. Each solution shows the partial quotients and a check, and the scoring note tells how the points are awarded. Total: 20 points.

Grade 4 · Common Core State Standards: **4.NBT.B.6**

Question 1 - Mental math [2 pts]

- a. $36 \text{ tens} \div 6 = 6 \text{ tens}$. **60**
- b. $40 \text{ hundreds} \div 5 = 8 \text{ hundreds}$. **800**

Scoring: 1 point for each answer.

Question 2 - Two-digit dividends [2 pts]

- a. $80 \div 4 = 20$ and $16 \div 4 = 4$. **24**
- b. $6 \times 14 = 84$ and $87 - 84 = 3$. **14 R 3**

Scoring: 1 point for each answer.

Question 3 - Three-digit dividend [2 pts]

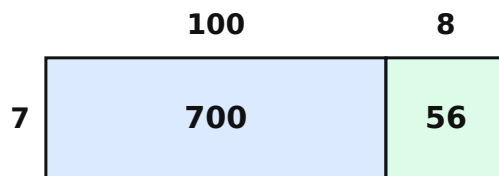
$500 \div 5 = 100$; $125 \div 5 = 25$. Quotient $100 + 25 = 125$.

Check: $125 \times 5 = 625$.

125

Scoring: 1 point for 125. 1 point for the check.

Question 4 - Remainder in the tens place [2 pts]



$$700 + 56 = 756, \text{ with } 2 \text{ left.}$$

$$758 - 700 = 58; 7 \times 8 = 56; 58 - 56 = 2.$$

$$\text{Check: } 108 \times 7 + 2 = 758.$$

108 R 2

Scoring: 1 point for 108. 1 point for the remainder 2.

Question 5 - Four-digit dividend [2 pts]

$$6 \times 800 = 4,800; 4,872 - 4,800 = 72; 72 \div 6 = 12.$$

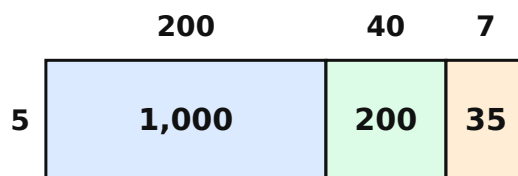
$$800 + 12 = 812$$

$$\text{Check: } 812 \times 6 = 4,872.$$

812

Scoring: 1 point for correct partial quotients. 1 point for 812.

Question 6 - Read the area model [2 pts]



$$200 + 40 + 7 = 247.$$

$$1,000 \div 5 = 200, 200 \div 5 = 40, 35 \div 5 = 7.$$

$$200 + 40 + 7 = 247$$

247

Scoring: 1 point for the three widths. 1 point for 247.

Question 7 - School vans [3 pts]

- a. $83 \div 6 = 13$ R 5 because $13 \times 6 = 78$ and $83 - 78 = 5$. **13 vans**
- b. **5 students**
- c. The 5 students need one more van. **14 vans**

Scoring: 1 point for each part.

Question 8 - Find the mistake [3 pts]

- a. $14 \times 5 + 3 = 70 + 3 = 73$, which is not 523.
- b. $5 \times 100 = 500$; $523 - 500 = 23$; $5 \times 4 = 20$; $23 - 20 = 3$. **104 R 3**
- c. There are 0 tens left after taking 500, but Liam skipped the zero and wrote 14 instead of 104.

Scoring: 1 point for each part.

Question 9 - Photo album pages [2 pts]

$$7 \times 60 = 420; 458 - 420 = 38; 7 \times 5 = 35; 38 - 35 = 3.$$

$$\text{Check: } 65 \times 7 + 3 = 455 + 3 = 458.$$

65 full pages; 3 photos left

Scoring: 1 point for 65. 1 point for 3 left.

Total
20 points