

Dividing Whole Numbers: 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 Mental division with zeros

/ 3 pts

- a. $450 \div 5 = 90$ (1 pt)
- b. $630 \div 9 = 70$ (1 pt)
- c. $56 \div 8 = 7$ (1 pt)

2 Estimating quotients

/ 3 pts

- a. $6,218 \approx 6,300$; $6,300 \div 7 = 900$. About 900. (1 pt)
- b. $2,950 \approx 3,000$; $3,000 \div 6 = 500$. About 500. (1 pt)
- c. $1,985 \approx 2,000$; $2,000 \div 4 = 500$. About 500. (1 pt)

Any reasonable compatible numbers earn the points.

3 Partial quotients and area model

/ 4 pts

- a. $4 \times 200 = 800$, remainder **292**. $4 \times 70 = 280$, remainder **12**. $4 \times 3 = 12$. The quotient is $200 + 70 + 3 = 273$. (2 pts)
- b. $12 \times 80 = 960$, and $972 - 960 = 12$; $12 \times 1 = 12$. The missing side is $80 + 1 = 81$, so $972 \div 12 = 81$. (2 pts)

4 Long division

/ 4 pts

- a. $54 \div 7 = 7 \text{ R } 5$; $58 \div 7 = 8 \text{ R } 2$; $27 \div 7 = 3 \text{ R } 6$. The result is **783 R 6**. Check: $7 \times 783 + 6 = 5,487$. (2 pts)
- b. $86 \div 38 = 2 \text{ R } 10$; $109 \div 38 = 2 \text{ R } 33$; $334 \div 38 = 8 \text{ R } 30$. The result is **228 R 30**. Check: $38 \times 228 + 30 = 8,694$. (2 pts)

5 Field trip remainders

/ 3 pts

- a. $9 \times 14 = 126$, and $134 - 126 = 8$, so $134 \div 9 = 14 \text{ R } 8$. (1 pt)
- b. The last 8 students still need a van, so we round up: **15 vans**. (1 pt)
- c. **14 whole pieces** and **8 centimeters** left over. (1 pt)

6 Seats in a theater

/ 3 pts

- a. $2,340 \div 36 = 65$, because $36 \times 60 = 2,160$, $2,340 - 2,160 = 180$ and $36 \times 5 = 180$. Each row has **65 seats**. (2 pts)
- b. $4 \times 65 = 260$. Four rows have **260 seats**. (1 pt)



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