

Dividing Multi-Digit Whole Numbers: 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 Multiples of 10 and 100

/ 4 pts

- a. $32 \div 4 = 8$, so $320 \div 4 = 80$. (1 pt)
- b. $27 \div 3 = 9$, so $2,700 \div 3 = 900$. (1 pt)
- c. $40 \div 5 = 8$, so $4,000 \div 5 = 800$. (1 pt)
- d. $54 \div 6 = 9$, so $5,400 \div 6 = 900$. (1 pt)

2 Long division

/ 4 pts

- a. $8 \div 4 = 2$; $6 \div 4 = 1$ R 2; $24 \div 4 = 6$. Quotient **216**. (1 pt) Check: $4 \times 216 = 864$. (1 pt)
- b. $15 \div 3 = 5$; $2 \div 3 = 0$, write 0; $27 \div 3 = 9$. Quotient **509**. (1 pt) Check: $3 \times 509 = 1,527$. (1 pt)

3 Remainders

/ 3 pts

- a. $8 \times 7 = 56$ and $59 - 56 = 3$: **7 R 3**. (1 pt)
- b. $40 \div 6 = 6$ R 4; bring down the 7 to make 47; $47 \div 6 = 7$ R 5. The answer is **67 R 5**. (1 pt)
- c. $6 \times 67 + 5 = 402 + 5 = 407$. (1 pt)

4 Area model

/ 3 pts

$360 \div 6 = 60$. (1 pt) $12 \div 6 = 2$. (1 pt)

Length: $60 + 2 = 62$ meters. Check: $6 \times 62 = 372$. (1 pt)

5 Estimate and divide

/ 3 pts

- a. 2,391 is close to 2,400, and $2,400 \div 8 = 300$. About 300. (1 pt)
- b. $23 \div 8 = 2$ R 7; bring down 9: $79 \div 8 = 9$ R 7; bring down 1: $71 \div 8 = 8$ R 7. The answer is **298 R 7**. (1 pt) Check: $8 \times 298 + 7 = 2,384 + 7 = 2,391$. (1 pt)

6 Guitar strings

/ 3 pts

Number of packs: $1,230 \div 6 = 205$, because $6 \times 205 = 1,230$. (1 pt)

Sharing among 4 shops: $205 \div 4 = 51$ R 1, because $4 \times 51 = 204$. (1 pt)

Each shop gets **51 packs** and **1 pack** is left over. (1 pt)



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