

# Dividing with Remainders

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Score: \_\_\_\_\_ / 24

## Q Quick Review

**Division** splits a number into equal groups. Using long division, you repeat the same cycle: **divide, multiply, subtract, and bring down** the next digit. Work from the left, one digit at a time. Sometimes the number does not split evenly, and the amount left over is the **remainder**. The remainder must always be *smaller* than the divisor. You can check your work:  $(\text{quotient} \times \text{divisor}) + \text{remainder}$  should equal the number you started with.

◇ **Example:** Find  $95 \div 6$ .

⇒ Ask how many 6s fit into 9: that is 1, since  $1 \times 6 = 6$ . Subtract:  $9 - 6 = 3$ . Bring down the 5 to make 35. How many 6s fit into 35? That is 5, since  $5 \times 6 = 30$ . Subtract:  $35 - 30 = 5$ . There are no more digits to bring down, so 5 is the remainder. The answer is 15 R 5. Check:  $15 \times 6 + 5 = 90 + 5 = 95$  — it works!

**Answer:** 15 R 5

## PRACTICE

Divide. Write each answer with its remainder.

- |                  |       |                    |       |
|------------------|-------|--------------------|-------|
| 1. $47 \div 3$   | _____ | 11. $832 \div 9$   | _____ |
| 2. $58 \div 4$   | _____ | 12. $945 \div 8$   | _____ |
| 3. $95 \div 6$   | _____ | 13. $1,234 \div 5$ | _____ |
| 4. $127 \div 5$  | _____ | 14. $2,057 \div 6$ | _____ |
| 5. $238 \div 7$  | _____ | 15. $3,471 \div 8$ | _____ |
| 6. $345 \div 8$  | _____ | 16. $4,206 \div 7$ | _____ |
| 7. $461 \div 9$  | _____ | 17. $5,360 \div 9$ | _____ |
| 8. $523 \div 4$  | _____ | 18. $6,048 \div 4$ | _____ |
| 9. $640 \div 6$  | _____ | 19. $7,125 \div 8$ | _____ |
| 10. $758 \div 7$ | _____ | 20. $8,302 \div 6$ | _____ |

## ◆ Word Problems

21. A teacher has 58 pencils to share equally among 4 groups. How many pencils does each group get, and how many are left over? \_\_\_\_\_
22. There are 127 students going on a field trip. Each van holds 9 students. How many vans are full, and how many students are in the last van? \_\_\_\_\_
23. A baker puts 235 muffins into boxes of 6. How many full boxes are there, and how many muffins are left over? \_\_\_\_\_
24. A school has 1,450 books to put on shelves that each hold 8 books. How many shelves are completely full, and how many books are left over? \_\_\_\_\_



## Answer Keys

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. 15 R 2</li> <li>2. 14 R 2</li> <li>3. 15 R 5</li> <li>4. 25 R 2</li> <li>5. 34</li> <li>6. 43 R 1</li> <li>7. 51 R 2</li> <li>8. 130 R 3</li> <li>9. 106 R 4</li> <li>10. 108 R 2</li> <li>11. 92 R 4</li> <li>12. 118 R 1</li> </ol> | <ol style="list-style-type: none"> <li>13. 246 R 4</li> <li>14. 342 R 5</li> <li>15. 433 R 7</li> <li>16. 600 R 6</li> <li>17. 595 R 5</li> <li>18. 1,512</li> <li>19. 890 R 5</li> <li>20. 1,383 R 4</li> <li>21. 14 pencils, 2 left over</li> <li>22. 14 full vans, 1 in the last van</li> <li>23. 39 full boxes, 1 left over</li> <li>24. 181 full shelves, 2 left over</li> </ol> |
|---|---|

### Step-by-Step Explanations

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|--|--|
| <ol style="list-style-type: none"> <li>1. 3 goes into 47 fifteen times (<math>15 \times 3 = 45</math>) with 2 left over.</li> <li>2. <math>14 \times 4 = 56</math>, and <math>58 - 56 = 2</math>, so 14 R 2.</li> <li>3. <math>15 \times 6 = 90</math>, and <math>95 - 90 = 5</math>, so 15 R 5.</li> <li>4. <math>25 \times 5 = 125</math>, and <math>127 - 125 = 2</math>, so 25 R 2.</li> <li>5. <math>34 \times 7 = 238</math> exactly, so there is no remainder.</li> <li>6. <math>43 \times 8 = 344</math>, and <math>345 - 344 = 1</math>, so 43 R 1.</li> <li>7. <math>51 \times 9 = 459</math>, and <math>461 - 459 = 2</math>, so 51 R 2.</li> <li>8. <math>130 \times 4 = 520</math>, and <math>523 - 520 = 3</math>, so 130 R 3.</li> <li>9. <math>106 \times 6 = 636</math>, and <math>640 - 636 = 4</math>, so 106 R 4.</li> <li>10. <math>108 \times 7 = 756</math>, and <math>758 - 756 = 2</math>, so 108 R 2.</li> <li>11. <math>92 \times 9 = 828</math>, and <math>832 - 828 = 4</math>, so 92 R 4.</li> <li>12. <math>118 \times 8 = 944</math>, and <math>945 - 944 = 1</math>, so 118 R 1.</li> <li>13. <math>246 \times 5 = 1,230</math>, and <math>1,234 - 1,230 = 4</math>, so 246 R 4.</li> </ol> | <ol style="list-style-type: none"> <li>14. <math>342 \times 6 = 2,052</math>, and <math>2,057 - 2,052 = 5</math>, so 342 R 5.</li> <li>15. <math>433 \times 8 = 3,464</math>, and <math>3,471 - 3,464 = 7</math>, so 433 R 7.</li> <li>16. <math>600 \times 7 = 4,200</math>, and <math>4,206 - 4,200 = 6</math>, so 600 R 6.</li> <li>17. <math>595 \times 9 = 5,355</math>, and <math>5,360 - 5,355 = 5</math>, so 595 R 5.</li> <li>18. <math>1,512 \times 4 = 6,048</math> exactly, so there is no remainder.</li> <li>19. <math>890 \times 8 = 7,120</math>, and <math>7,125 - 7,120 = 5</math>, so 890 R 5.</li> <li>20. <math>1,383 \times 6 = 8,298</math>, and <math>8,302 - 8,298 = 4</math>, so 1,383 R 4.</li> <li>21. Divide: <math>58 \div 4 = 14</math> R 2. Each group gets 14 pencils with 2 left over.</li> <li>22. Divide: <math>127 \div 9 = 14</math> R 1. So 14 vans are full and 1 student rides in another van.</li> <li>23. Divide: <math>235 \div 6 = 39</math> R 1. There are 39 full boxes with 1 muffin left over.</li> <li>24. Divide: <math>1,450 \div 8 = 181</math> R 2. So 181 shelves are full with 2 books left over.</li> </ol> |
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