Dividing with Remainders

Name: _____	Date: _____	Score: _____ / 24

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: (quotient $\times$ divisor) $+$ 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. $47 \div 3$ _____
2. $58 \div 4$ _____
3. $95 \div 6$ _____
4. $127 \div 5$ _____
5. $238 \div 7$ _____
6. $345 \div 8$ _____
7. $461 \div 9$ _____
8. $523 \div 4$ _____
9. $640 \div 6$ _____
10. $758 \div 7$ _____
11. $832 \div 9$ _____
12. $945 \div 8$ _____
13. $1{,}234 \div 5$ _____
14. $2{,}057 \div 6$ _____
15. $3{,}471 \div 8$ _____
16. $4{,}206 \div 7$ _____
17. $5{,}360 \div 9$ _____
18. $6{,}048 \div 4$ _____
19. $7{,}125 \div 8$ _____
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

1. 15 R 2
2. 14 R 2
3. 15 R 5
4. 25 R 2
5. 34
6. 43 R 1
7. 51 R 2
8. 130 R 3
9. 106 R 4
10. 108 R 2
11. 92 R 4
12. 118 R 1
13. 246 R 4
14. 342 R 5
15. 433 R 7
16. 600 R 6
17. 595 R 5
18. 1,512
19. 890 R 5
20. 1,383 R 4
21. 14 pencils, 2 left over
22. 14 full vans, 1 in the last van
23. 39 full boxes, 1 left over
24. 181 full shelves, 2 left over

Step-by-Step Explanations

1. 3 goes into 47 fifteen times ($15 \times 3 = 45$) with 2 left over.
2. $14 \times 4 = 56$, and $58 - 56 = 2$, so 14 R 2.
3. $15 \times 6 = 90$, and $95 - 90 = 5$, so 15 R 5.
4. $25 \times 5 = 125$, and $127 - 125 = 2$, so 25 R 2.
5. $34 \times 7 = 238$ exactly, so there is no remainder.
6. $43 \times 8 = 344$, and $345 - 344 = 1$, so 43 R 1.
7. $51 \times 9 = 459$, and $461 - 459 = 2$, so 51 R 2.
8. $130 \times 4 = 520$, and $523 - 520 = 3$, so 130 R 3.
9. $106 \times 6 = 636$, and $640 - 636 = 4$, so 106 R 4.
10. $108 \times 7 = 756$, and $758 - 756 = 2$, so 108 R 2.
11. $92 \times 9 = 828$, and $832 - 828 = 4$, so 92 R 4.
12. $118 \times 8 = 944$, and $945 - 944 = 1$, so 118 R 1.
13. $246 \times 5 = 1{,}230$, and $1{,}234 - 1{,}230 = 4$, so 246 R 4.
14. $342 \times 6 = 2{,}052$, and $2{,}057 - 2{,}052 = 5$, so 342 R 5.
15. $433 \times 8 = 3{,}464$, and $3{,}471 - 3{,}464 = 7$, so 433 R 7.
16. $600 \times 7 = 4{,}200$, and $4{,}206 - 4{,}200 = 6$, so 600 R 6.
17. $595 \times 9 = 5{,}355$, and $5{,}360 - 5{,}355 = 5$, so 595 R 5.
18. $1{,}512 \times 4 = 6{,}048$ exactly, so there is no remainder.
19. $890 \times 8 = 7{,}120$, and $7{,}125 - 7{,}120 = 5$, so 890 R 5.
20. $1{,}383 \times 6 = 8{,}298$, and $8{,}302 - 8{,}298 = 4$, so 1,383 R 4.
21. Divide: $58 \div 4 = 14$ R 2. Each group gets 14 pencils with 2 left over.
22. Divide: $127 \div 9 = 14$ R 1. So 14 vans are full and 1 student rides in another van.
23. Divide: $235 \div 6 = 39$ R 1. There are 39 full boxes with 1 muffin left over.
24. Divide: $1{,}450 \div 8 = 181$ R 2. So 181 shelves are full with 2 books left over.

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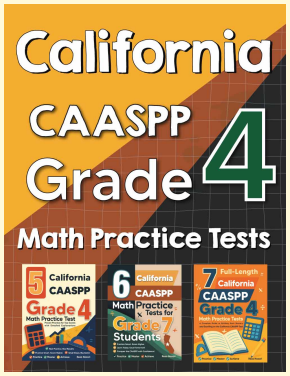

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