Interpreting Remainders

Name: _____	Date: _____	Score: _____ / 24

Quick Review

When you divide and the numbers do not split evenly, you get a **remainder** — the amount left over. For example, $17 \div 5 = 3$ R 2, because 5 goes into 17 three times with 2 left over. The tricky part is knowing what the remainder **means** in a real problem. Sometimes you **drop** the remainder, sometimes you **round up** to the next whole number, and sometimes the remainder **is** the answer. Always reread the question and ask what the leftover amount stands for.

◇ **Example:** 23 students are riding in vans. Each van holds 4 students. How many vans are needed so everyone has a ride?
⇒ First do the division: $23 \div 4 = 5$ R 3. Five full vans carry 20 students, but 3 students still need a ride. We cannot leave them behind, so we round up and add one more van. That gives $5 + 1 = 6$ vans. Here the remainder tells us to round up.

Answer: 6 vans

PRACTICE

Divide and write the remainder. Think about what it means.

1. $17 \div 5$ _____
2. $23 \div 4$ _____
3. $38 \div 6$ _____
4. $50 \div 7$ _____
5. $29 \div 3$ _____
6. $44 \div 8$ _____
7. $61 \div 9$ _____
8. $75 \div 10$ _____
9. $33 \div 4$ _____
10. $52 \div 6$ _____
11. $19 \div 2$ _____
12. $47 \div 5$ _____
13. $70 \div 8$ _____
14. $26 \div 3$ _____
15. $58 \div 7$ _____
16. $91 \div 9$ _____
17. $100 \div 6$ _____
18. $85 \div 4$ _____
19. $64 \div 5$ _____
20. $77 \div 6$ _____

♦ Word Problems

21. There are 30 students going on a field trip. Each van can carry 7 students. How many vans are needed so that everyone gets a ride? _____

22. Mrs. Lee baked 53 cookies. She puts exactly 8 cookies in each bag for the bake sale. How many full bags can she make?

_____

23. Diego has 100 vacation photos. He can fit 6 photos on each scrapbook page. How many pages will he need to hold all of the photos? _____

24. A teacher shares 45 markers equally among 4 art stations. Each station gets the same number, and any extras go back in the supply box. How many markers go in the supply box? _____

Answer Keys

1. 3 R 2
2. 5 R 3
3. 6 R 2
4. 7 R 1
5. 9 R 2
6. 5 R 4
7. 6 R 7
8. 7 R 5
9. 8 R 1
10. 8 R 4
11. 9 R 1
12. 9 R 2
13. 8 R 6
14. 8 R 2
15. 8 R 2
16. 10 R 1
17. 16 R 4
18. 21 R 1
19. 12 R 4
20. 12 R 5
21. 5 vans
22. 6 full bags
23. 17 pages
24. 1 marker

Step-by-Step Explanations

1. $5 \times 3 = 15$, and $17 - 15 = 2$ left over.
2. $4 \times 5 = 20$, and $23 - 20 = 3$ left over.
3. $6 \times 6 = 36$, and $38 - 36 = 2$ left over.
4. $7 \times 7 = 49$, and $50 - 49 = 1$ left over.
5. $3 \times 9 = 27$, and $29 - 27 = 2$ left over.
6. $8 \times 5 = 40$, and $44 - 40 = 4$ left over.
7. $9 \times 6 = 54$, and $61 - 54 = 7$ left over.
8. $10 \times 7 = 70$, and $75 - 70 = 5$ left over.
9. $4 \times 8 = 32$, and $33 - 32 = 1$ left over.
10. $6 \times 8 = 48$, and $52 - 48 = 4$ left over.
11. $2 \times 9 = 18$, and $19 - 18 = 1$ left over.
12. $5 \times 9 = 45$, and $47 - 45 = 2$ left over.
13. $8 \times 8 = 64$, and $70 - 64 = 6$ left over.
14. $3 \times 8 = 24$, and $26 - 24 = 2$ left over.
15. $7 \times 8 = 56$, and $58 - 56 = 2$ left over.
16. $9 \times 10 = 90$, and $91 - 90 = 1$ left over.
17. $6 \times 16 = 96$, and $100 - 96 = 4$ left over.
18. $4 \times 21 = 84$, and $85 - 84 = 1$ left over.
19. $5 \times 12 = 60$, and $64 - 60 = 4$ left over.
20. $6 \times 12 = 72$, and $77 - 72 = 5$ left over.
21. $30 \div 7 = 4$ R 2. Four vans carry 28, but 2 students are still waiting, so we round up to 5 vans.
22. $53 \div 8 = 6$ R 5. She can fill 6 bags completely. The 5 leftover cookies are not enough for a full bag, so we drop the remainder.
23. $100 \div 6 = 16$ R 4. Sixteen pages hold 96 photos, and 4 are left, so he needs one more page: $16 + 1 = 17$ pages.
24. $45 \div 4 = 11$ R 1. Each station gets 11 markers, and the remainder of 1 marker goes back in the supply box. Here the remainder is the answer.

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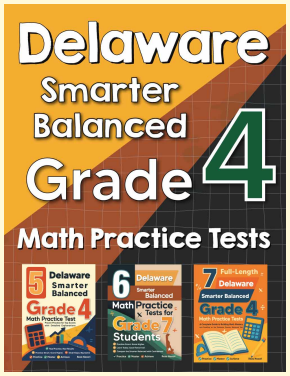

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