Word Problems: Multiplication and Division

Grade 5 Math • Section 2.4

Name: _____	Date: _____	Score: _____ / 10

Quick Review and Helpful Hints

- **Multiplication clues:** "each," "every," "per," "times," "total of equal groups."
- **Division clues:** "split equally," "share," "how many groups," "how many in each."
- Read the problem twice. Identify the operation **before** you compute. Estimate to check your answer.

Example: A farm has 23 rows of apple trees with 18 trees in each row. Each tree produces about 85 apples. How many apples does the farm produce?

First find the total number of trees: $23 \times 18 = 414$ trees. Then multiply by the apples per tree: $414 \times 85 = 35{,}190$. Check: $400 \times 85 = 34{,}000$, which is close. ✓

Answer: $35{,}190$ apples

Practice Problems

Solve each word problem. Show your work.

1. A library has 36 shelves. Each shelf holds 48 books. How many books in total?

2. A school has $1{,}260$ students split equally into 28 classes. How many students per class?

3. A farmer harvests $5{,}472$ pounds of grain and divides it equally among 18 trucks. How many pounds go in each truck?

4. A store orders 15 cartons of juice. Each carton has 24 bottles. Each bottle costs $\$3$. What is the total cost?

5. A printer prints 175 pages per minute. How many pages can it print in 24 minutes?

6. A baker has $2{,}160$ muffins to place into boxes of 12. How many boxes are needed?

7. An auditorium has 52 rows with 34 seats each. For a concert, $1{,}250$ tickets are sold. How many seats are empty?

8. A truck driver travels 65 miles each hour. How far does she travel in 14 hours?

Word Problems

9. A warehouse stores $8{,}640$ cans in crates of 36. Then 72 crates are shipped out. How many cans remain?

10. A school district buys 48 computers at $\$675$ each and 48 monitors at $\$225$ each. What is the total cost?

Answer Keys

1. $1{,}728$
2. 45
3. 304
4. $\$1{,}080$
5. $4{,}200$
6. 180
7. 518
8. 910
9. $6{,}048$
10. $\$43{,}200$

Step-by-Step Explanations

1. Start with the main idea. For multiplication and division, $36 \times 48 = 1{,}728$ books. Write the given information first, then choose the operation that matches the situation.

2. Keep the work tidy. For multiplication and division, $1{,}260 \div 28 = 45$ students per class. A quick estimate helps confirm that the final answer is reasonable.

3. Look at what the numbers mean. For multiplication and division, $5{,}472 \div 18 = 304$ pounds per truck. The explanation should show both the computation and why that computation fits the problem.

4. Use the setup first. For multiplication and division, there are $15 \times 24 = 360$ bottles, and $360 \times 3 = 1{,}080$. Write the given information first, then choose the operation that matches the situation.

5. Check the size of the answer. For multiplication and division, $175 \times 24 = 4{,}200$ pages. A quick estimate helps confirm that the final answer is reasonable.

6. Match the operation to the words. For multiplication and division, $2{,}160 \div 12 = 180$ boxes. The explanation should show both the computation and why that computation fits the problem.

7. Write the important values first. For multiplication and division, seats: $52 \times 34 = 1{,}768$; empty seats: $1{,}768 - 1{,}250 = 518$. Write the given information first, then choose the operation that matches the situation.

8. Follow the pattern carefully. For multiplication and division, $65 \times 14 = 910$ miles. A quick estimate helps confirm that the final answer is reasonable.

9. Start with the main idea. For multiplication and division, $8{,}640 \div 36 = 240$ crates; $240 - 72 = 168$ crates remain; $168 \times 36 = 6{,}048$ cans. The explanation should show both the computation and why that computation fits the problem.

10. Keep the work tidy. For multiplication and division, each computer-monitor set costs $675 + 225 = 900$; $48 \times 900 = 43{,}200$. Write the given information first, then choose the operation that matches the situation.

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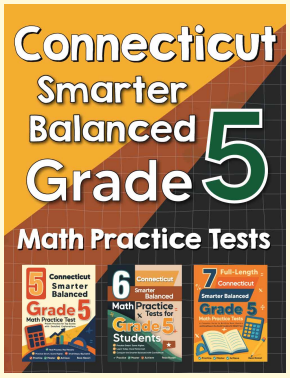

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