

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

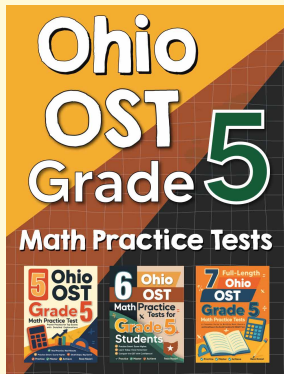
Step-by-Step Explanations

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