

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.



Want Even More Practice?

Check Out Our Other New Hampshire NH SAS Test Books!



New Hampshire NH SAS Grade 5 Math Preparation Bundle

18 full-length practice tests across three books
(5 + 6 + 7)

No repeated questions—maximum practice value!



18 Tests!
3 Books
One Bundle

Important: All our test books contain **unique, completely different tests** from each other! Each book offers fresh practice questions—no repeats!

5 Practice Tests

- ✓ 5 complete practice tests with detailed explanations
- ✓ Perfect foundation for NH SAS test preparation
- ✓ Builds confidence and test-taking skills
- ✓ High-quality questions aligned with state standards

Start your practice journey!

6 Practice Tests

- ✓ 6 complete practice tests with detailed explanations
- ✓ **Unique tests**—different from the 5 tests book
- ✓ Perfect for more practice after mastering 5 tests
- ✓ Builds even more confidence and test-taking skills
- ✓ Same high-quality questions aligned with standards

Take your practice to the next level!

7 Practice Tests

- ✓ 7 complete practice tests for maximum preparation
- ✓ **Unique tests**—different from 5 and 6 tests books
- ✓ The most comprehensive practice for Grade 5
- ✓ Ideal for students aiming for top scores
- ✓ Extensive practice builds mastery and confidence

Go all the way with comprehensive practice!