Class 4 Word Problems

By Thinking Juggernaut

📚 Advanced Word Problem Solving

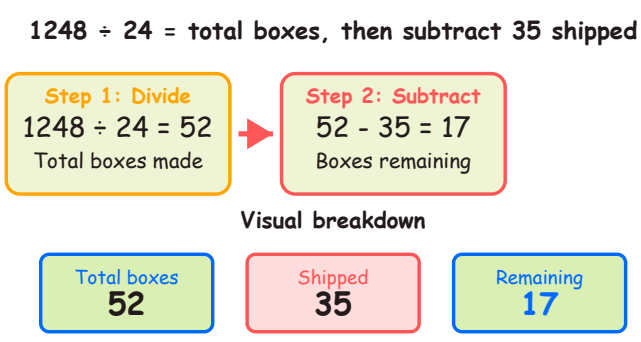
How to Choose the Right Operation:

- **Addition (+):** Combining amounts, "total", "altogether", "sum", "in all"
- **Subtraction (-):** Taking away, "difference", "left", "remaining", "how many more"
- **Multiplication (×):** Equal groups, "each", "per", "times", "product"
- **Division (÷):** Sharing equally, "divide", "distribute", "each group gets", "quotient"

For Multi-Step Problems: Break the problem into smaller steps. Do multiplication/division first, then addition/subtraction (unless there are brackets).

🎯 Sample Multi-Step Problem

Problem: A factory produces 1,248 pencils every day. They pack 24 pencils in each box. If 35 boxes are shipped to stores, how many boxes are left in the factory?



Solution:

Step 1: 1248 ÷ 24 = 52 boxes

Step 2: 52 - 35 = 17 boxes

Answer: 17 boxes left

Keywords: "pack 24 each" = divide, "shipped" = subtract

Part A: Warm-up (Easy) - 5 Questions

Q1. A bookstore has 1,245 books in Hindi and 1,387 books in English. How many books are there in total?

Q2. A farmer had 2,456 kg of wheat. He sold 1,278 kg. How much wheat is left with the farmer?

A) 1,078 kg

B) 1,178 kg

C) 1,278 kg

D) 3,734 kg

Q3. A factory produces 145 toys every hour. How many toys will it produce in 12 hours?

145 toys per hour × 12 hours = ?

Q4. A school library has 864 books to arrange equally on 18 shelves. How many books will be on each shelf?

Q5. Rohan scored 1,245 points in the first game and 1,876 points in the second game. What is his total score?

Part B: Practice (Medium) - 8 Questions

Q6. A textile shop had 3,456 meters of cloth. They sold 1,289 meters in January and 987 meters in February. How many meters of cloth are left?

Q7. A train travels 85 km per hour. How far will it travel in 14 hours at the same speed?

A) 1,090 km

B) 1,180 km

C) 1,190 km

D) 1,290 km

Q8. A shopkeeper bought 1,536 eggs. He packs them in cartons of 24 eggs each. How many cartons can he fill completely?

1536 eggs ÷ 24 per carton = ?

Q9. A cinema hall has 45 rows with 32 seats in each row. How many people can sit in the hall when it is full?

Q10. Priya had ₹2,500. She bought 8 books for ₹125 each. How much money does she have left?

A) ₹1,000

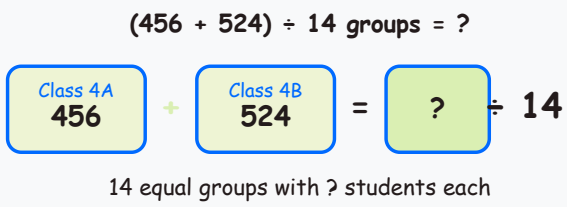
B) ₹1,500

C) ₹1,200

D) ₹2,000

Q11. A water tank has a capacity of 5,400 liters. If 15 families use equal amounts and the tank becomes empty, how much water did each family use?

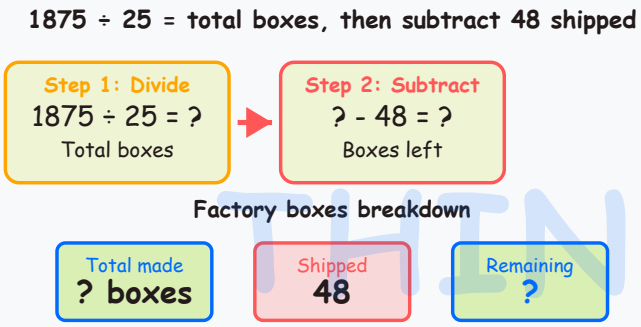
Q12. In a school, there are 456 students in Class 4A and 524 students in Class 4B. If they are divided equally into 14 groups for a sports event, how many students will be in each group?



Q13. A fruit vendor bought 2,880 oranges. He sold 1,456 oranges and the rest were packed in boxes of 48 oranges each. How many boxes did he need?

Part C: Challenge (Hard) - 3 Questions

Q14. A factory produces 1,875 chocolates per day. They pack 25 chocolates in each box. If 48 boxes are shipped to stores on Monday, how many boxes are left in the factory?



Q15. A bakery made 2,016 cupcakes for a wedding. They kept 96 cupcakes for display and packed the rest in boxes of 32 cupcakes each. How many boxes did they fill?

A) 55 boxes

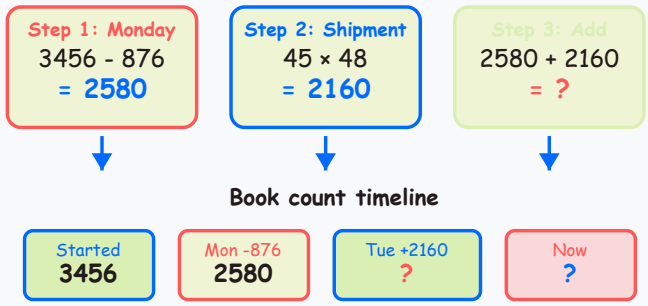
B) 60 boxes

C) 63 boxes

D) 65 boxes

Q16. A bookstore had 3,456 books. On Monday, they sold 876 books. On Tuesday, they received a new shipment of 45 cartons with 48 books in each carton. How many books does the bookstore have now?

3456 - 876 + (45 × 48) = ?



🎯 Answer Key

Q1: 2,632 books Addition

Q2: B) 1,178 kg Subtraction

Q3: 1,740 toys Multiplication

Q4: 48 books Division

Q5: 3,121 points Addition

Q6: 1,180 meters Mixed (3456-1289-987=1180)

Q7: C) 1,190 km Multiplication

Q8: 64 cartons Division

Q9: 1,440 people Multiplication

Q10: B) ₹1,500 Mixed (8×125=1000, 2500-1000=1500)

Q11: 360 liters Division

Q12: 70 students Mixed (456+524=980, 980÷14=70)

Q13: 30 boxes Mixed (2880-1456=1424, 1424÷48=29.67≈30 boxes)

Q14: 27 boxes Mixed (1875÷25=75, 75-48=27)

Q15: B) 60 boxes Mixed (2016-96=1920, 1920÷32=60)

Q16: 4,740 books Mixed (3456-876=2580, 45×48=2160,

2580+2160=4740)

📊 Scoring Guide

Score Range	Performance & Next Steps
14-16 correct	⭐⭐⭐ Excellent! You've mastered all operations with larger numbers. Ready for Class 5 challenges!
11-13 correct	⭐⭐ Very Good! Focus on multi-step problems in Part C. Remember: Do operations in order - multiply/divide first, then add/subtract.
7-10 correct	⭐ Good Progress! Work on: 1) Breaking problems into clear steps, 2) Writing each calculation separately, 3) Checking if answer makes sense.
Below 7	💪 Keep Practicing! Review basic operations with 3-digit numbers first. Practice identifying keywords. Use number line or drawings to visualize problems.

Total Questions: 16 | Your Score: _____ / 16

💡 **Pro Tips:** For multi-step problems: (1) Read carefully, (2) Write down each step, (3) Do multiplication/division before addition/subtraction, (4) Check if your answer is reasonable!

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