

Multi-Step Mixed Operations Word Problems

Grades 5 to 6 - Multi-step word problems using multiple operations

Directions

Some problems require more than one step and more than one operation. Read carefully, decide what to do first, show all your work, and write your final answer.

1. Classroom Seating

There are 7 tables with 5 students at each table. After lunch, 8 students leave for music class. How many students remain in the classroom?

2. School Fundraiser

Each student sells 6 coupon books for \$4 each. The class has 18 students. If \$75 is spent on supplies, how much money is left?

3. Field Trip Lunches

A school orders 24 lunch boxes. Each box costs \$7. The school receives a \$36 discount. What is the total cost after the discount?

4. Reading Challenge

Emma reads 25 pages each day for 6 days. She then reads 48 pages on Saturday. How many pages does she read in all?

5. Bus Transportation

There are 5 buses. Each bus carries 48 students. After unloading, 37 students stay for an after-school program. How many students leave on the buses?

6. Classroom Supplies

Each box of pencils holds 12 pencils. The teacher buys 9 boxes. If 38 pencils are given out, how many pencils remain?

7. Track Practice

A runner completes 4 laps around a 400-meter track each day. After 5 days, the runner skips one day of practice. What total distance does the runner complete?

8. Movie Tickets

Tickets cost \$8 each. A group buys 9 tickets. They use a coupon for \$12 off the total. What is the final cost?

9. Snack Packs

Each snack pack contains 3 granola bars. The school orders 28 packs. If 17 granola bars are left over, how many granola bars were used?

10. Library Books

A library shelf holds 14 books on each row. There are 6 full rows. After moving some books, 29 books are removed. How many books remain on the shelf?

Answer Key

Step-by-step solutions

Solutions

1. Multiply: $7 \times 5 = 35$ students. Subtract: $35 - 8 = 27$ students remain.
2. Multiply: $6 \times 4 = 24$ per student. Multiply: $24 \times 18 = 432$. Subtract supplies: $432 - 75 = \$357$.
3. Multiply: $24 \times 7 = 168$. Subtract discount: $168 - 36 = \$132$.
4. Multiply: $25 \times 6 = 150$. Add Saturday reading: $150 + 48 = 198$ pages.
5. Multiply: $5 \times 48 = 240$ students. Subtract those staying: $240 - 37 = 203$ students leave.
6. Multiply: $12 \times 9 = 108$ pencils. Subtract given away: $108 - 38 = 70$ pencils remain.
7. Multiply: $4 \times 400 = 1,600$ meters per day. Multiply: $1,600 \times 5 = 8,000$ meters total.
8. Multiply: $8 \times 9 = 72$. Subtract coupon: $72 - 12 = \$60$.
9. Multiply: $3 \times 28 = 84$ granola bars. Subtract leftovers: $84 - 17 = 67$ used.
10. Multiply: $14 \times 6 = 84$ books. Subtract removed: $84 - 29 = 55$ books remain.