

Worksheet 01: Advanced Arithmetic Reasoning

Multi-step mission math. Show work in each box.

Part A: Mission Logistics

1. A convoy travels 168 miles in 3 hours 30 minutes. What is its average speed in miles per hour?

Show your work / final answer:

2. A supply team packs 18 crates. Each crate holds 24 meal kits. If 15% of the kits are held in reserve, how many kits are available for distribution?

Show your work / final answer:

3. A vehicle uses 1 gallon of fuel every 14 miles. How many gallons are needed for a 196-mile round trip plus a 25% safety reserve?

Show your work / final answer:

4. Four squads have 11, 13, 10, and 16 students. If each team must receive the same number of water bottles and each student receives 3, how many total bottles are needed?

Show your work / final answer:

5. A mission begins at 0815 and ends at 1348. How long did it last?

Show your work / final answer:

6. A storage room has 9 shelves. Each shelf can hold 7 boxes, and each box holds 12 items. If 58 items are removed, how many remain when the shelves were full?

Show your work / final answer:

Extra workspace / final response:

Part B: Explain Your Method

7. Create your own two-step word problem using distance, time, and supplies. Then solve it.

Show your work / final answer:

8. Which problem above required the most steps? Explain how you knew what operation to use first.

Extra workspace / final response:
