Part 1: Decimals and Fractions

Solve the following problems.

1. **Add:** 5.75 + 12.3 = _____
2. **Subtract:** 28.1 - 9.45 = _____
3. **Multiply:** 6.2 x 4.5 = _____
4. **Divide:** 75 ÷ 100 = _____
5. **Simplify the fraction:** 2515 = _____
6. **Add the fractions:** 52+101 = _____
7. **Subtract the fractions:** 43−31 = _____
8. **Multiply the fractions:** 32×54 = _____

Part 2: Order of Operations

Solve each problem using the correct order of operations (PEMDAS/BODMAS).

1. 12 + (5 x 3) - 7 = _____
2. 36 ÷ 6 + 4 x 2 = _____
3. (10 + 2) x (15 - 5) = _____
4. 42 + 8 ÷ 2 = _____

Part 3: Volume

Find the volume of each rectangular prism. (Volume = length × width × height)

1. A box has a length of 10 cm, a width of 5 cm, and a height of 3 cm.
   Volume: _____ cubic cm
2. A storage container has a length of 4 meters, a width of 2 meters, and a height of 6 meters. *Volume:* _____ cubic meters

Part 4: Multi-Step Word Problems

Read each problem carefully and solve it. Show your work!

1. A farmer has 12 acres of land. He plants corn on 3.5 acres and soybeans on 4.25 acres. The rest of the land is used for wheat. How many acres are used for wheat?
   Work:

   _____

   Answer: _____ acres

2. Sophia buys 3 books for $15.50 each and a pen for $2.75. If she pays with a $50 bill, how much change does she get back?
   Work:

   _____

   Answer: $_____

3. A baker uses 43 cups of sugar for a batch of cookies. If she wants to make 3 batches, how many cups of sugar will she use?
   Work:

   _____

   Answer: _____ cups