

Unit 8: Putting It All Together

ADVANCED · SET 2

Name: _____ Date: _____

Solve each problem. Show your work on scratch paper and write your final answer in simplest form.

1. Compute $\frac{3}{4} + \frac{2}{3} - \frac{5}{6}$. Write the answer as a fraction in simplest form.

Answer: _____

3. Compute 4.06×3.5 .

Answer: _____

5. A right rectangular prism is built from unit cubes. Its volume is 240 cubic units. If the base is 8 units by 6 units, what is its height in units?

Answer: _____

7. Compute $7.2 \div 0.09$.

Answer: _____

9. Two rectangular prisms are joined to form one solid. The first is $4 \times 3 \times 5$ cm and the second is $4 \times 3 \times 2$ cm. What is the total volume in cubic centimeters?

Answer: _____

2. A rectangular fish tank measures 15 cm long, 8 cm wide, and 12 cm tall. It is filled with water to a height of 9 cm. How many cubic centimeters of water are in the tank?

Answer: _____

4. Find the value of $(\frac{2}{5} \times \frac{3}{4}) \div \frac{1}{2}$. Write the answer as a fraction in simplest form.

Answer: _____

6. Point A is at $(-3, 4)$ and point B is at $(-3, -6)$. What is the distance between A and B?

Answer: _____

8. A recipe needs $\frac{2}{3}$ cup of flour per batch. How many cups of flour are needed for 4 and $\frac{1}{2}$ batches? Write the answer as a fraction (or mixed number) in simplest form.

Answer: _____

10. Start at the point $(2, -1)$. Move 4 units right and 6 units up. Write the coordinates of the new point as an ordered pair.

Answer: _____

11. Compute $5 - 2\frac{3}{8}$. Write the answer as a mixed number in simplest form.

Answer: _____

12. A box has a volume of 360 cubic inches. Its length is 10 inches and its width is 4 inches. A second box has the same height but a length of 6 inches and width of 5 inches. What is the volume of the second box in cubic inches?

Answer: _____