

Unit 8: Putting It All Together

ADVANCED

Name: _____ Date: _____

Solve each problem and write your answer in the simplest exact form (whole number, fraction like $\frac{3}{4}$, or coordinate pair like $(4, -3)$). Show your work on a separate sheet.

1. Compute $\frac{3}{4} \times \frac{8}{9} - \frac{1}{3}$. Give your answer as a fraction in simplest form.

Answer: _____

3. Compute $4.8 \times 0.25 + 3.6$.

Answer: _____

5. On a coordinate grid, point A is at $(2, 7)$ and point B is at $(2, -5)$. How many units apart are A and B?

Answer: _____

7. Compute $14.4 \div 0.6 - 2.5$.

Answer: _____

9. A fish tank is a rectangular prism measuring 10 units by 6 units by 5 units. It is filled with water to $\frac{3}{4}$ of its full volume. How many cubic units of water are in the tank?

Answer: _____

11. Compute $0.75 + \frac{3}{8}$ and give your answer as a decimal.

Answer: _____

2. A storage unit is made of two rectangular boxes glued together with no overlap. One box measures $6 \text{ cm} \times 5 \text{ cm} \times 4 \text{ cm}$ and the other measures $3 \text{ cm} \times 3 \text{ cm} \times 3 \text{ cm}$. What is the total volume in cubic centimeters?

Answer: _____

4. Compute $5 \frac{1}{4} \div \frac{3}{8}$. Give your answer as a whole number.

Answer: _____

6. A rectangular prism has a volume of 360 cubic units. Its base measures 9 units by 8 units. What is its height in units?

Answer: _____

8. Find $\frac{2}{3}$ of $\frac{3}{5}$ of 45.

Answer: _____

10. A point starts at $(-3, 6)$. It is moved 7 units right and 9 units down. What are the coordinates of its new location? Write your answer as an ordered pair.

Answer: _____

12. Compute $(2.5 + \frac{1}{2}) \times 4 - 3.75$.

Answer: _____