

Unit 9: Putting It All Together

ADVANCED • SET 2

Name: _____ Date: _____

Solve each problem and write your final answer on the line. Show your work on scratch paper.

1. A stadium has 6,048 seats arranged in 48 equal sections. Each ticket costs \$27. If exactly 39 of the sections sell out completely and the rest stay empty, how much money is collected in total?

Answer: _____

3. A recipe needs $2\frac{3}{4}$ cups of flour per batch. A baker makes 8 batches but has already used $5\frac{1}{2}$ cups. How many more cups of flour does the baker still need? Give your answer as a mixed number.

Answer: _____

5. A rectangular garden is 34 meters long and 19 meters wide. A square garden has the same perimeter as the rectangle. What is the area of the square garden, in square meters?

Answer: _____

7. Which is larger, $\frac{5}{8}$ or 0.63? Answer with the value that is larger, written exactly as it appears in the question.

Answer: _____

9. Simplify the fraction $\frac{84}{144}$ to lowest terms.

Answer: _____

2. Compute: $\frac{3}{8} + \frac{5}{6}$. Give your answer as an improper fraction in simplest form.

Answer: _____

4. Evaluate: $45.6 + 128.75 - 39.08$. Give your answer as a decimal.

Answer: _____

6. Find the value: $7,208 \div 34$, then multiply the whole-number quotient by 15 (ignore any remainder). What is the product?

Answer: _____

8. A rectangle has an area of 1,564 square cm and a length of 46 cm. What is its perimeter, in cm?

Answer: _____

10. A number rounds to 7,000 when rounded to the nearest thousand. It is a multiple of 250, is greater than 6,750, and is odd... wait it must be exactly divisible: The number is the largest multiple of 250 that is less than 7,000. What is 8 times that number?

Answer: _____

11. Order of operations: $12 \times (48 - 6 \times 5) + 144 \div 12$.
What is the result?

Answer: _____

12. A ribbon 15 meters long is cut into pieces each $\frac{3}{5}$ of a meter long. How many whole pieces can be cut, and how many meters are left over? Give your answer as 'pieces, leftover' (e.g. '10, 0').

Answer: _____