Unit 8: Putting It All Together

ADVANCED · SET 3

Name: _____ Date: _____

Solve each problem. Show your work on scrap paper and write only the final answer (a number, a fraction, or yes/no) on the line.

1. A dumpling shop steams 7 baskets with 8 dumplings in each basket, plus 9 extra dumplings on the counter. All of the dumplings are packed into takeaway boxes that hold 5 dumplings each. How many full boxes do they fill?

Answer: _____

2. Two mural panels hang in the school hallway. One panel is 9 feet long and 7 feet tall. The other is 6 feet long and 4 feet tall. What is the total area of the two panels, in square feet?

Answer: _____

3. A rectangular dog run is fenced all the way around. The fence is 46 meters long in total. The dog run is 14 meters long. How many meters wide is it?

Answer: _____

4. A birthday cake is cut into 12 equal pieces. Nina takes 1/4 of the pieces and Omar takes 1/3 of the pieces. What fraction of the whole cake is left? Write your answer as a fraction.

Answer: _____

5. Jamal has 84 dragon cards. He deals them out equally to 5 friends and keeps the leftovers for himself. How many cards are left over for Jamal?

Answer: _____

6. A rectangular kite covers 72 square feet of paper. One side of the kite measures 8 feet. What is the perimeter of the kite, in feet?

Answer: _____

7. A honeycomb tray has 6 rows with 9 cells in each row. A beekeeper checks 7 of these trays. How many cells does she check in all?

Answer: _____

8. A jar holds 56 beads. Exactly 3/8 of the beads are red. How many beads are NOT red?

Answer: _____

9. The floor of a skate shed is a rectangle 12 feet by 8 feet. A square ramp mat with sides of 4 feet sits on the floor. How many square feet of the floor are not covered by the mat?

Answer: _____

10. A rectangular poster is 5 cm wide and 11 cm tall. A square poster has the same perimeter as the rectangular one. How many centimeters long is each side of the square poster?

Answer: _____

11. Ravi says 4/6 of a chocolate bar is the same amount as 6/9 of an identical bar. Is Ravi correct? Answer yes or no.

Answer: _____

12. A chess club raised $216 by selling bracelets for $4 each. They sold the same number of bracelets on each of 6 days. How many bracelets did they sell each day?

Answer: _____