

Unit 4: Wrapping Up Multiplication and Division with Multi-digit Numbers

ADVANCED • SET 3

Name: _____ Date: _____

Show your work using the standard algorithm for each problem, then write your final answer on the line.

1. A stadium scoreboard flashes a light pattern 2,486 times during each hockey period. There are 37 periods played in the tournament. How many times does the pattern flash in all?

Answer: _____

3. A cookie factory bakes 7,304 cookies and packs them into boxes that each hold exactly 44 cookies. Will every box be completely full with none left over? Write yes or no.

Answer: _____

5. A wind farm produced 8,463 units of power in 21 days. It produced the same amount each day. How many units did it produce per day?

Answer: _____

7. A robotics club orders 24 kits. Each kit contains 48 gears. The club splits all the gears evenly among 32 members. How many gears does each member get?

Answer: _____

9. A seed library has 2,608 seedlings. Each tray holds 36 seedlings. How many trays are needed so that every seedling has a spot?

Answer: _____

2. A tile artist glues 508 glass chips into every mural panel. The museum wall holds 246 panels. How many glass chips does the artist glue in all?

Answer: _____

4. A card shop has 5,782 trading cards. The owner slides them into sleeves that each hold 34 cards. After filling as many sleeves as possible, how many cards are left over?

Answer: _____

6. A number multiplied by 46 gives 12,282. What is the number?

Answer: _____

8. A dock crew loads 18 crates of ice onto a boat. Each crate weighs 275 kilograms. The crew then divides the total weight evenly into 55 coolers. How many kilograms go into each cooler?

Answer: _____

10. Team Kite folded 706 paper cranes on each of 89 days. Team River folded 1,234 paper cranes on each of 51 days. How many more cranes did the larger total have?

Answer: _____

11. A kayak club raised \$9,576 over 28 weeks, earning the same amount each week. Each week's money was shared equally by 6 club members. How many dollars did one member get in one week?

Answer: _____

12. Find the value of $45 \times 108 - 3,120 \div 24$.

Answer: _____