

Unit 6: Multiplying and Dividing Multi-digit Numbers

ADVANCED

Name: _____ Date: _____

Show all your work using partial products for multiplication and partial quotients for division. Write each final answer as a single number.

1. Use partial products to multiply: 47×68 . What is the product?

Answer: _____

3. Use partial products to multiply the two-digit numbers 89×76 . What is the product?

Answer: _____

5. Use partial quotients to divide: $4176 \div 8$. What is the quotient?

Answer: _____

7. Use partial quotients to divide: $6394 \div 6$. Give the quotient and remainder in the form Q r R.

Answer: _____

9. A factory packs 24 granola bars in each box. It fills 375 boxes. Then 3852 of those bars are set aside as samples. How many granola bars remain?

Answer: _____

2. Use partial products to multiply: 236×54 . What is the product?

Answer: _____

4. Use partial products to multiply: 408×37 . What is the product?

Answer: _____

6. Use partial quotients to divide: $5187 \div 7$. Give the quotient and remainder in the form Q r R (for example, 12 r 3).

Answer: _____

8. Use partial quotients to divide: $9128 \div 9$. Give the quotient and remainder in the form Q r R.

Answer: _____

10. Marcus multiplies 156×43 using partial products, then divides the result by 4. What is his final answer? Give it in the form Q r R.

Answer: _____

11. A school collected 8760 pencils and shares them equally among 8 classrooms, giving each classroom the same whole number of pencils with as few as possible left over. Each classroom then splits its pencils equally into 5 supply bins. How many pencils are in each bin?

Answer: _____

12. A theater has 63 rows with 48 seats in each row. Tickets are sold in groups of 9. How many complete groups of 9 tickets can be sold if every seat is filled?

Answer: _____