Year 5 · Number: Operation Station

Name: _____ Date: _____

Hi there! This sheet gives your times tables, big adds and subtracts, and sharing (division) a good workout. Take your time and show your steps, you've got this!

Warm-up

1. 1. 7 × 8 = ?

2. 2. 72 ÷ 9 = ?

3. 3. 456 + 238 = ?

4. 4. 803 − 547 = ?

Practice

5. 1. Use column addition: 3,486 + 2,759 = ?

6. 2. Use column subtraction: 5,204 − 1,876 = ?

7. 3. 347 × 6 = ?

8. 4. 34 × 27 = ? (two two-digit numbers)

9. 5. The Avondale Primary bake sale packed 8 boxes of muffins with 125 muffins in each box. How many muffins altogether?

10. 6. A sports shop in Waterview has 470 tennis balls to pack into tubes of 6. How many full tubes are made, and how many balls are left over?

Challenge

11. 1. The Waterview Community Centre has $8,000. They buy 6 tables at $145 each and 24 chairs at $32 each. How much money is left?

12. 2. Divide a four-digit number: 4,517 ÷ 8 = ? Give the answer with a remainder.

Answer key (for parents and tutors)

1. 1. 7 × 8 = ?
   7 × 8 = 56. This is a fact to know by heart. (Double 7 is 14, double again is 28, double again is 56.)
2. 2. 72 ÷ 9 = ?
   72 ÷ 9 = 8, because 9 × 8 = 72. Division and multiplication are opposite operations.
3. 3. 456 + 238 = ?
   456 + 238 = 694. Add by place value: 400 + 200 = 600, 50 + 30 = 80, 6 + 8 = 14. Then 600 + 80 + 14 = 694.
4. 4. 803 − 547 = ?
   803 − 547 = 256. Column method: units 3 − 7 needs regrouping, so rename 803 as 700 + 90 + 13. Then 13 − 7 = 6, 90 − 40 = 50, 700 − 500 = 200. Answer 256.
5. 1. Use column addition: 3,486 + 2,759 = ?
   3,486 + 2,759 = 6,245. Units: 6 + 9 = 15 (write 5, carry 1). Tens: 8 + 5 + 1 = 14 (write 4, carry 1). Hundreds: 4 + 7 + 1 = 12 (write 2, carry 1). Thousands: 3 + 2 + 1 = 6. Answer 6,245.
6. 2. Use column subtraction: 5,204 − 1,876 = ?
   5,204 − 1,876 = 3,328. Units: 4 − 6 needs renaming; borrow from tens (but tens is 0, so rename across). 5,204 becomes 4 thousands, 11 hundreds, 9 tens, 14 units. 14 − 6 = 8, 9 − 7 = 2, 11 − 8 = 3, 4 − 1 = 3. Answer 3,328. (Check: 3,328 + 1,876 = 5,204.)
7. 3. 347 × 6 = ?
   347 × 6 = 2,082. Multiply each part: 6 × 7 = 42 (write 2, carry 4). 6 × 40 = 240, plus 4 tens carried = 28 tens (write 8, carry 2). 6 × 300 = 1,800, plus 200 carried = 2,000. Total 2,000 + 80 + 2 = 2,082.
8. 4. 34 × 27 = ? (two two-digit numbers)
   34 × 27 = 918. Split 27 into 20 + 7. 34 × 20 = 680. 34 × 7 = 238. Add: 680 + 238 = 918.
9. 5. The Avondale Primary bake sale packed 8 boxes of muffins with 125 muffins in each box. How many muffins altogether?
   8 × 125 = 1,000 muffins. Strategy: 125 × 8 is the same as 125 × 4 × 2. 125 × 4 = 500, and 500 × 2 = 1,000. There are 1,000 muffins.
10. 6. A sports shop in Waterview has 470 tennis balls to pack into tubes of 6. How many full tubes are made, and how many balls are left over?
    470 ÷ 6 = 78 remainder 2. Working: 6 × 70 = 420, leaving 50. 6 × 8 = 48, leaving 2. So 70 + 8 = 78 tubes with 2 balls left over. Answer: 78 full tubes, 2 balls left.
11. 1. The Waterview Community Centre has $8,000. They buy 6 tables at $145 each and 24 chairs at $32 each. How much money is left?
    Tables: 6 × $145 = $870. Chairs: 24 × $32 = $768 (24 × 30 = 720, 24 × 2 = 48, 720 + 48 = 768). Total spent: $870 + $768 = $1,638. Money left: $8,000 − $1,638 = $6,362.
12. 2. Divide a four-digit number: 4,517 ÷ 8 = ? Give the answer with a remainder.
    4,517 ÷ 8 = 564 remainder 5. Working: 8 into 45 (hundreds) = 5, since 8 × 5 = 40, remainder 5 → bring down 1 to make 51. 8 into 51 = 6, since 8 × 6 = 48, remainder 3 → bring down 7 to make 37. 8 into 37 = 4, since 8 × 4 = 32, remainder 5. So the answer is 564 r5. Check: 564 × 8 = 4,512, plus 5 = 4,517. Correct.