

Multiplication of 2-3 Digit Numbers with Single-digit (with Carryover)  
Grade 2

Name: \_\_\_\_\_ Date: \_\_\_\_\_

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**Section A: Mental Math Challenge** 🧠

*Solve these in your head and write only the answer!*

1.  $25 \times 4 =$  \_\_\_\_\_

2.  $99 \times 5 =$  \_\_\_\_\_

3.  $48 \times 0 =$  \_\_\_\_\_

4.  $76 \times 10 =$  \_\_\_\_\_

5.  $88 \times 9 =$  \_\_\_\_\_

6.  $35 \times 6 =$  \_\_\_\_\_

7.  $12 \times 8 =$  \_\_\_\_\_

8.  $64 \times 5 =$  \_\_\_\_\_

9.  $27 \times 10 =$  \_\_\_\_\_

10.  $45 \times 2 =$  \_\_\_\_\_

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**Section B: Vertical Multiplication** 📏

*Solve these problems using vertical multiplication. Show your carryovers!*

1.

57

$\times 8$

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2.

89

× 7

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3.

96

× 9

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4.

245

× 6

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5.

387

× 4

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6.

499

× 8

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7.

658

× 7

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8.

784

× 9

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9.

895

× 5

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10.

976

× 6

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**Section C: Horizontal Multiplication** →

*Convert to vertical form and solve. Show all work!*

1.  $67 \times 8 =$  \_\_\_\_\_

2.  $94 \times 6 =$  \_\_\_\_\_

3.  $138 \times 7 =$  \_\_\_\_\_

4.  $256 \times 9 =$  \_\_\_\_\_

5.  $479 \times 5 =$  \_\_\_\_\_

6.  $587 \times 4 =$  \_\_\_\_\_

7.  $693 \times 8 =$  \_\_\_\_\_

8.  $745 \times 6 =$  \_\_\_\_\_

9.  $867 \times 7 =$  \_\_\_\_\_

10.  $989 \times 9 =$  \_\_\_\_\_

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### Section D: Fill in the Missing Numbers

*Find the missing digit(s) to make the multiplication correct!*

1.  $3\_ \times 6 = 246$

2.  $5\_ \times 8 = 456$

3.  $\_4 \times 7 = 588$

4.  $8\_ \times 9 = 783$

5.  $2\_5 \times 4 = 1,020$

6.  $3\_8 \times 5 = 1,690$

7.  $\_65 \times 6 = 2,790$

8.  $4\_7 \times 8 = 3,656$

9.  $\_48 \times 7 = 5,236$

10.  $8\_9 \times 9 = 7,641$

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### Section E: Word Problems

*Read carefully and solve! Write the equation and answer.*

1. A bakery makes 148 cupcakes every day. How many cupcakes will they make in 6 days?

**Equation:** \_\_\_\_\_

**Answer:** \_\_\_\_\_

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**2.** There are 47 boxes of chocolates. Each box contains 8 chocolates. How many chocolates are there in total?

**Equation:** \_\_\_\_\_

**Answer:** \_\_\_\_\_

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**3.** A school bus makes 9 trips daily. If it carries 56 students in each trip, how many students does it transport in one day?

**Equation:** \_\_\_\_\_

**Answer:** \_\_\_\_\_

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4. A factory produces 275 toys every hour. How many toys will be produced in 7 hours?

Equation: \_\_\_\_\_

Answer: \_\_\_\_\_

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5. Mia reads 38 pages of her book each day. If she continues for 9 days, how many pages will she read in total?

Equation: \_\_\_\_\_

Answer: \_\_\_\_\_

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6. A farmer plants 165 seeds in each row. If there are 8 rows, how many seeds are planted altogether?

Equation: \_\_\_\_\_

Answer: \_\_\_\_\_

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7. A train has 9 coaches. Each coach can seat 248 passengers. What is the total seating capacity of the train?

Equation: \_\_\_\_\_

Answer: \_\_\_\_\_

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8. Alex practices piano for 45 minutes every day. How many minutes will he practice in 6 days?

Equation: \_\_\_\_\_

Answer: \_\_\_\_\_

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9. A parking lot has 8 levels. Each level can park 367 cars. What is the total parking capacity?

Equation: \_\_\_\_\_

Answer: \_\_\_\_\_

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10. Emma saves \$78 every week. How much money will she save in 7 weeks?

Equation: \_\_\_\_\_

Answer: \_\_\_\_\_

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### Section F: Challenge Problems

*These are tough! Take your time and think carefully.*

1. If  $456 \times 7 = 3,192$ , what is  $457 \times 7$ ?

Answer: \_\_\_\_\_ Explanation: \_\_\_\_\_

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2. Find the product:  $999 \times 8 =$  \_\_\_\_\_

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3. A number multiplied by 9 gives 5,976. What is the number?

Answer: \_\_\_\_\_

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4. Which is greater:  $(125 \times 8)$  or  $(148 \times 7)$ ? By how much?

Answer: \_\_\_\_\_ is greater by \_\_\_\_\_

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5. If you multiply a three-digit number by 5 and get 2,365, what was the original number?

Answer: \_\_\_\_\_

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## Section G: Pattern Recognition

Complete the multiplication patterns!

1.  $23 \times 2 = 46$ ,  $23 \times 4 = 92$ ,  $23 \times 6 = 138$ ,  $23 \times 8 =$  \_\_\_\_\_

2.  $15 \times 5 = 75$ ,  $25 \times 5 = 125$ ,  $35 \times 5 = 175$ ,  $45 \times 5 =$  \_\_\_\_\_

3.  $111 \times 3 = 333$ ,  $111 \times 6 = 666$ ,  $111 \times 9 =$  \_\_\_\_\_

4.  $12 \times 9 = 108$ ,  $24 \times 9 = 216$ ,  $36 \times 9 = 324$ ,  $48 \times 9 =$  \_\_\_\_\_

5.  $50 \times 4 = 200$ ,  $51 \times 4 = 204$ ,  $52 \times 4 = 208$ ,  $53 \times 4 =$  \_\_\_\_\_

6.  $75 \times 2 = 150$ ,  $75 \times 4 = 300$ ,  $75 \times 6 = 450$ ,  $75 \times 8 =$  \_\_\_\_\_

7.  $88 \times 5 = 440$ ,  $88 \times 6 = 528$ ,  $88 \times 7 = 616$ ,  $88 \times 8 =$  \_\_\_\_\_

8.  $125 \times 4 = 500$ ,  $125 \times 5 = 625$ ,  $125 \times 6 = 750$ ,  $125 \times 7 =$  \_\_\_\_\_

9.  $333 \times 2 = 666$ ,  $333 \times 3 = 999$ ,  $333 \times 4 = 1,332$ ,  $333 \times 5 =$  \_\_\_\_\_

10.  $99 \times 7 = 693$ ,  $99 \times 8 = 792$ ,  $99 \times 9 =$  \_\_\_\_\_

## Bonus Section!

1. Create your own word problem using the multiplication  $456 \times 8$ . Solve it!

Your Problem:

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Solution: \_\_\_\_\_

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2. Without calculating, use estimation to tell if  $687 \times 9$  is closer to 6,000 or 7,000. Explain your reasoning.

Answer: Closer to \_\_\_\_\_

Reasoning: \_\_\_\_\_

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 **Self-Assessment Checklist**

Before you submit, check:

- I showed all my work for vertical multiplication
- I wrote equations for word problems
- I double-checked my carryovers
- I attempted all sections
- I reviewed my answers

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 **ANSWER KEY**

**Section A: Mental Math Challenge**

1. 100
2. 495
3. 0
4. 760
5. 792
6. 210
7. 96
8. 320
9. 270
10. 90

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**Section B: Vertical Multiplication**

1.  $57 \times 8 = 456$

$$\begin{array}{r} 57 \\ \times 8 \\ \hline 456 \end{array}$$

2.  $89 \times 7 = 623$

$$\begin{array}{r} 89 \\ \times 7 \\ \hline \end{array}$$

6 2 3

3.  $96 \times 9 = 864$

5

9 6

$\times 9$

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8 6 4

4.  $245 \times 6 = 1,470$

23

2 4 5

$\times 6$

-----

1 4 7 0

5.  $387 \times 4 = 1,548$

23

3 8 7

$\times 4$

-----

1 5 4 8

6.  $499 \times 8 = 3,992$

77

4 9 9

$\times 8$

-----

3 9 9 2

7.  $658 \times 7 = 4,606$

54

658

× 7

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4606

8.  $784 \times 9 = 7,056$

73

784

× 9

-----

7056

9.  $895 \times 5 = 4,475$

44

895

× 5

-----

4475

10.  $976 \times 6 = 5,856$

54

976

× 6

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5856

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### Section C: Horizontal Multiplication

1.  $67 \times 8 = 536$

2.  $94 \times 6 = 564$
  3.  $138 \times 7 = 966$
  4.  $256 \times 9 = 2,304$
  5.  $479 \times 5 = 2,395$
  6.  $587 \times 4 = 2,348$
  7.  $693 \times 8 = 5,544$
  8.  $745 \times 6 = 4,470$
  9.  $867 \times 7 = 6,069$
  10.  $989 \times 9 = 8,901$
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#### Section D: Fill in the Missing Numbers

1.  $41 \times 6 = 246$
  2.  $57 \times 8 = 456$
  3.  $84 \times 7 = 588$
  4.  $87 \times 9 = 783$
  5.  $255 \times 4 = 1,020$
  6.  $338 \times 5 = 1,690$
  7.  $465 \times 6 = 2,790$
  8.  $457 \times 8 = 3,656$
  9.  $748 \times 7 = 5,236$
  10.  $849 \times 9 = 7,641$
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#### Section E: Word Problems

1. **Equation:**  $148 \times 6$   
**Answer:** 888 cupcakes

2. **Equation:**  $47 \times 8$   
**Answer:** 376 chocolates
3. **Equation:**  $56 \times 9$   
**Answer:** 504 students
4. **Equation:**  $275 \times 7$   
**Answer:** 1,925 toys
5. **Equation:**  $38 \times 9$   
**Answer:** 342 pages
6. **Equation:**  $165 \times 8$   
**Answer:** 1,320 seeds
7. **Equation:**  $248 \times 9$   
**Answer:** 2,232 passengers
8. **Equation:**  $45 \times 6$   
**Answer:** 270 minutes
9. **Equation:**  $367 \times 8$   
**Answer:** 2,936 cars
10. **Equation:**  $78 \times 7$   
**Answer:** \$546

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### Section F: Challenge Problems

1. **Answer:** 3,199  
**Explanation:** Since 457 is 1 more than 456, the answer is 7 more than 3,192
2. **Answer:** 7,992
3. **Answer:** 664 (because  $664 \times 9 = 5,976$ )
4. **Answer:**  $125 \times 8 = 1,000$ ;  $148 \times 7 = 1,036$   
 **$148 \times 7$  is greater by 36**
5. **Answer:** 473 (because  $473 \times 5 = 2,365$ )

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### Section G: Pattern Recognition

1. **184** ( $23 \times 8$ )
2. **225** ( $45 \times 5$ )
3. **999** ( $111 \times 9$ )
4. **432** ( $48 \times 9$ )
5. **212** ( $53 \times 4$ )
6. **600** ( $75 \times 8$ )
7. **704** ( $88 \times 8$ )
8. **875** ( $125 \times 7$ )
9. **1,665** ( $333 \times 5$ )
10. **891** ( $99 \times 9$ )






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### Bonus Section

1. **Answer will vary** - Should equal **3,648**  
Example: "A library has 456 books on each of its 8 shelves. How many books are there in total?"
2. **Answer:** Closer to **6,000**  
**Reasoning:** 687 is close to 700, and  $700 \times 9 = 6,300$ , which is closer to 6,000 than 7,000.  
(Actual answer: 6,183)

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### Common Mistakes to Watch For:

-  Forgetting to add the carryover
-  Multiplying from left to right instead of right to left
-  Not aligning numbers properly in vertical multiplication
-  Calculation errors in mental math
-  Misreading word problems

**Keep practicing and you'll improve!** 