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**MULTIPLY 3-DIGIT NUMBERS**

Let's solve this together.



**Use multiplication to solve the problem.**

1. A company buys 9 printers. Each printer costs \$287. How much does the company spend on printers?

Hundreds	Tens	Ones	
<input type="text"/>	6		← regrouping
2	8	7	← factor
×		9	← factor
<input type="text"/>	<input type="text"/>	<input type="text"/>	← product

total cost = cost of each printer × number of printers

Find the **product**.

Multiply the ones, tens and hundreds of 287 by 9.

Regroup as needed.

**Solution:** The company spends \_\_\_\_\_ on printers.

**Solve each problem. Choose the best answer.**

2. Kara makes \$248 each month. How much does Kara make in 6 months?
  - (A) \$1248
  - (B) \$1288
  - (C) \$1434
  - (D) \$1488
3. Glenn drives 145 kilometres each week. How many kilometres does he drive in 8 weeks?
  - (A) 820
  - (B) 933
  - (C) 1160
  - (D) 2460
4. A movie theatre has 391 seats. For 4 different shows, the theatre sells a ticket for every seat. What is the total number of tickets sold?
  - (A) 1264
  - (B) 1564
  - (C) 1565
  - (D) 3664
5. Bob can type 105 words in a minute. How many words can he type in 7 minutes?
  - (A) 705
  - (B) 712
  - (C) 735
  - (D) 753

**MENTAL  
MATHS**

Answer the following questions to find the product.



$365 \times 8 = \square$

- 6. What is  $300 \times 8$ ? \_\_\_\_\_
- 7. What is  $60 \times 8$ ? \_\_\_\_\_
- 8. What is  $5 \times 8$ ? \_\_\_\_\_
- 9. What is the product  $365 \times 8$ ? \_\_\_\_\_

**REASONING**

Solve the problem. Explain your thinking.

- 10. There are 7 books in Martina’s favourite book series. Each book is 318 pages long. Martina reads the entire series. Her friend Chris says Martina has read 2456 pages. Chris’s work is shown below.

$$\begin{array}{r} 35 \\ 318 \\ \times 7 \\ \hline 2456 \end{array}$$

Explain why Chris is incorrect. How many pages has Martina read?

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**MULTIPLY 3-DIGIT NUMBERS**

Let's solve this together.



Use multiplication to solve the problem.

1.  $529 \times 64 = \square$

Remember: the product of a 3-digit number and a 2-digit number is the sum of **partial products**.

	Hundreds	Tens	Ones	
	<input type="checkbox"/>	5		← regrouping from multiplying by 6 tens
	<input type="checkbox"/>	3		← regrouping from multiplying by 4 ones
	5	2	9	← 3-digit number
		6	4	← 2-digit number
	×			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	← partial product: $529 \times 4$ ones
+	<input type="checkbox"/>	<input type="checkbox"/>	4	← partial product: $529 \times 6$ tens
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	← product is sum of partial products

**Solution:**  $529 \times 64 = \underline{\hspace{2cm}}$

Solve each problem. Choose the best answer.

2. A music camp charges \$236 for one week. What is the cost of 15 weeks at the camp?

- (A) \$1416
- (B) \$2360
- (C) \$3410
- (D) \$3540

3. Rina's softball has a mass of 149 grams. What would be the mass of 25 softballs identical to Rina's?

- (A) 1043 g
- (B) 3385 g
- (C) 3725 g
- (D) 5025 g

**MENTAL MATHS**

Round the factors and use estimation to check each product. Circle the word *correct* or *incorrect* for each problem.

- 4. a.  $688 \times 19 = 13072$                       correct / incorrect
- b.  $207 \times 93 = 2484$                       correct / incorrect
- c.  $377 \times 28 = 8906$                       correct / incorrect

Answer numbers 5–7 to find the product.

$824 \times 37 = \blacksquare$
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- 5. What is  $824 \times 7$ ? \_\_\_\_\_
- 6. What is  $824 \times 30$ ? \_\_\_\_\_
- 7. What is  $824 \times 37$ ? \_\_\_\_\_

**REASONING**

Solve each problem. Fill in the blanks.

- 8. Find the partial products and add them to find the product of 263 and 11.

	Hundreds	Tens	Ones	
	2	6	3	
	×	1	1	
	□	□	□	← partial product: $263 \times 1$ one
+	□	□	□	← partial product: $263 \times 1$ ten
	□	□	□	← product is sum of partial products

- 9. Study the problem above. Compare the number 263 to the product, \_\_\_\_\_.

  - a. What is the thousands digit in the product? \_\_\_\_\_
  - b. What is the hundreds digit in the product? 8 It is the sum of 2 and \_\_\_\_\_.
  - c. What is the tens digit in the product? \_\_\_\_\_ It is the sum of 6 and \_\_\_\_\_.
  - d. What is the ones digit in the product? \_\_\_\_\_
  - e. Look for a number pattern. How are the digits in the product related to the digits in the number being multiplied by 11? \_\_\_\_\_

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- 10. Consider the problem  $427 \times 11$ . Fill in the digits of the product using the number pattern you found. \_\_\_\_\_

## REVIEW 1: PRACTICES 1-4

Multiply or divide to solve each problem. Show your work.

1. 
$$\begin{array}{r} 198 \\ \times 4 \\ \hline \end{array}$$

3.  $4800 \div 6 = \underline{\hspace{2cm}}$

2. 
$$\begin{array}{r} 558 \\ \times 24 \\ \hline \end{array}$$

4.  $9 \overline{)252}$

5. Explain how you could use multiplication to estimate  $843 \div 13$ .  
What is the estimated quotient?

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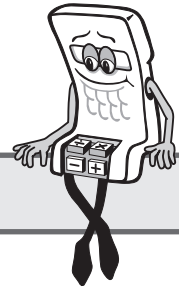
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**Solution:**  $843 \div 13 \approx \underline{\hspace{2cm}}$ .

**Solve each problem. Choose the best answer.**

6. A radio station gives away \$6000 to be shared equally by 50 people. Which basic fact could help you find the amount each person receives?
- (A)  $12 \div 6 = 2$
  - (B)  $24 \div 6 = 4$
  - (C)  $30 \div 5 = 6$
  - (D)  $60 \div 5 = 12$
7. Tia makes sandwiches for 134 students on a school trip. She uses 3 slices of meat for each sandwich. How many meat slices does Tia use in all?
- (A) 137
  - (B) 302
  - (C) 392
  - (D) 402

8. A memory card can hold 800 megabytes of data. Ella wants to store 4800 megabytes. How many memory cards will she need?
- (A) 4
  - (B) 6
  - (C) 60
  - (D) 400
9. The T-Zone sells T-shirts for about \$8 each. About how many T-shirts does the shop sell if sales total \$2382?
- (A) 3
  - (B) 30
  - (C) 300
  - (D) 3000



**REASONING**

**Solve the problem. Explain your thinking.**

10. During a contest, Jeanie earns 50 points for every book chapter she reads. For every 2500 points earned, she receives a voucher for a local book shop. If Jeanie reads 60 chapters, how many vouchers does she receive?
- Use pictures, words or numbers to show your work.

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_