# **Practice Multiplying with Tens**

Use the menu to choose your practice.

Practice Menu									
Can I Do This? ▲ Working On It! ● Getting It! ■ Got It!									
Multiply numbers that are multiples of ten.	Questions 1–4	Questions 2–6, 8	Questions 5–8						

#### **Using Base-Ten Pieces and Shorthand**

**1.** Write a number sentence to describe the multiplication problems shown in base-ten shorthand. The first one is an example.

E	x.				
	Number sent	tence:	 4 × 70	) = 280	
Α	·				
	Number sen	tence:			
В	.00		]		
			]		
	Number sen	tence:	 		
С	.0000		100		
	0000		ססנ	0000	0000
	Number sen	tence:			

Name							_ Da	.te		
D	- 	 		 	 	 	 	 	 	
										111
	Num	ber ser	ntence	:						
▲● 2.	<b>2.</b> Question A below shows Nila's way to solve problems with multiples of ten. Solve the other problems following this example. Do not forget to use the turn-around rule when needed.									
	<b>A.</b> 6	× 30 =	= 6 × 3	tens			<b>B.</b> 7 3	× 400	= 7 × 4	4
	6	× 3 te	ns = 18	3 tens						
	18	3 tens =	= 180							
	<b>C.</b> 4	× 80 =	= 4 × _			_	<b>D.</b> 30	$0 \times 4$	= 3	× 4
						-				
						-				
▲● 3.				•	ms fror tion A i				iow ho	w to solve them
	<b>A.</b> 6	× 30 =	= 6 × 3	8 × 10			<b>B.</b> 7 3	× 400	=	
	(6	× 3) >	< 10 =	18 × 1	10					
	18	3 × 10	= 180							
	<b>C.</b> 4	× 80 =	=			_	<b>D.</b> 30	$0 \times 4$	=	
						-				
						-				

Nai	me
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**4.** Solve the following problems using any method you choose. Look for patterns. Use a calculator to check your answers.

<b>A.</b> 3 × 7 =	<b>B.</b> 2 × 8 =
3 × 70 =	2 × 80 =
3 × 700 =	20 × 8 =
30 × 7 =	20 × 80 =
30 × 70 =	200 × 8 =
300 × 70 =	200 × 800 =
<b>C.</b> 4 × 11 =	<b>D.</b> 3 × 12 =
40 × 11 =	3 × 120 =
4 × 110 =	30 × 12 =
4 × 1100 =	3 × 1200 =
400 × 11 =	300 × 120 =
400 × 1100 =	3000 × 1200 =

**5.** Use Alexis's way from Question 3 to solve these problems. Remember to use the turn-around rule when needed.

<b>A.</b> 60 × 40 =	<b>B.</b> 50 × 300 =
<b>C.</b> 110 × 60 =	<b>D.</b> 140 × 200 =
<b>E.</b> 40 × 400 =	<b>F.</b> 900 × 400 =

Name	Date

- **6.** Solve the following problems any way you wish. Try to do them in your head as much as possible. Write a number sentence for each to show how you solved it.
  - **A.** The giant sequoia trees in California are the world's tallest trees. Many of them grow to be more than 80 meters tall. If 8 giant sequoias were laid end to end, how far would they stretch?
  - **B.** Mr. Rankins bought *The Daily Babbler* newspaper, which sold 3500 newspapers every day at the time. By the time Mr. Rankins retired, the newspaper sold double the number of newspapers every day. How many *Daily Babbler* newspapers were sold every day when Mr. Rankins retired?
  - **C.** About 700 students graduate from Northwest High School every year. If this trend continues, about how many students will have graduated from Northwest High School altogether in the next 50 years?
  - **7.** Use digits to write the numbers that are described below. Then go back and read the answers to the problems out loud.

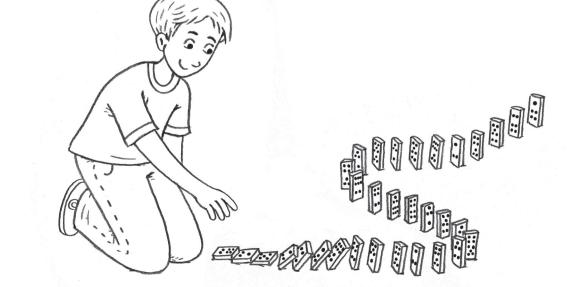
A. 451 thousands	<b>B.</b> 79 tens
C. 85 hundreds	<b>D.</b> 138 hundreds
E. 238 ten thousands	<b>F.</b> 364 tens
<b>G.</b> 65 thousands	H. 48 hundred thousands

Name	
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8. A. Arlene's grandmother lives 250 miles away. Arlene tries to visit her grandmother at least twice every year. In six years, how many miles does Arlene drive visiting her grandmother? (Remember, she has to drive back home after each visit.)

**B.** John, Irma, and Steve combined their dominos and set up a domino trail that was 1500 dominos long. They challenged all the classes in their school to match their trail. At the end of the challenge, there were a total of 40 groups of students who built domino trails using 1500 dominos each. How many dominos were used in all?





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225

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# **Our Best Estimate**

#### Work in groups of three to estimate answers for each of the problems below. For each problem:

- Estimate an answer on your own (use mental math if you can). Write your own estimate in the first box.
- Share your estimate with your partners and explain your reasoning. Write your partners' estimates in the boxes under their names.
- Discuss with your partners which estimate is the best and why you think so. Write your group's best estimate in the "Our Best" column.
- In the "Our Reasoning" column, show or tell why your group decided it was the best estimate.

#### The first problem is an example.

	ESTIMATES						
Problem	Mine	Partner Name:	Partner Name:	Our Best	Our Reasoning		
Example 38 × 6	210	240	200	240	This estimate is best because we had to use only one convenient number (40) which is close to 38. $40 \times 6 = 240$		
<b>1.</b> 8 × 27							



Date \_

0		ESTIMATES				
	Problem	Mine	Partner Name:	Partner Name:	Our Best	Our Reasoning
	<b>2.</b> 98 × 9					
	<b>3.</b> 77 × 52					
	<b>4.</b> 89 × 27					
1 : :	<b>5.</b> 752 × 6					
	<b>6.</b> 72 × 965					

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**Estimating with Multiplication** 

Name \_\_\_\_

Date \_\_\_\_\_

## Hour Walk Work Feedback Box

Student to Student	Yes	Yes, but	No, but	No
MPE1. Know the problem. I read the problem carefully. I know the questions to answer and what information is important.				
<b>MPE2. Find a strategy.</b> I choose good tools and an efficient strategy for solving the problem.				
MPE3. Check for reasonableness. I look back at my solution to see if my answer makes sense. If it does not, I try again.				
MPE4. Check my calculations. If I make mistakes, I correct them.				
MPE5. Show my work. I show or tell how I arrived at my answer so someone else can understand my thinking.				
MPE6. Use labels. I use labels to show what numbers mean.				

227

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**Hour Walk** 

## Hour Walk Work Feedback Box

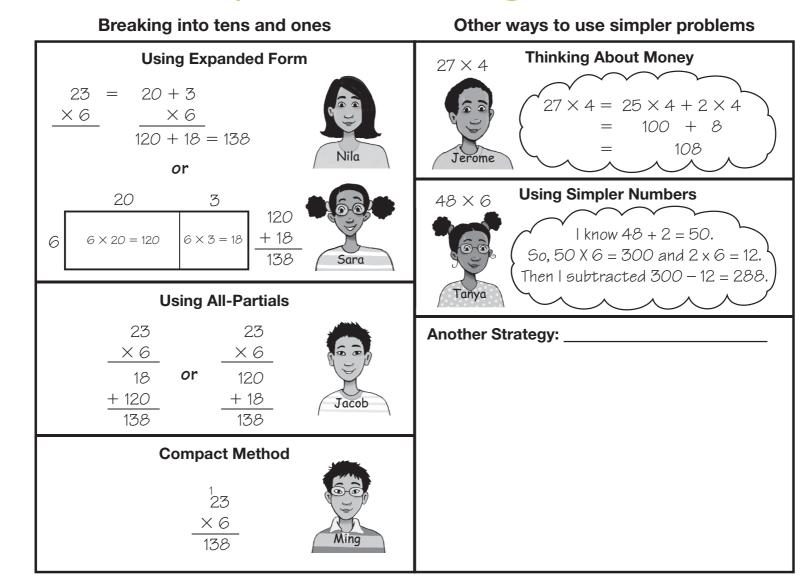
Teacher to Student	Yes	Yes, but	No, but	No
<b>MPE1. Know the problem.</b> I read the problem carefully. I know the questions to answer and what information is important.				
MPE2. Find a strategy. I choose good tools and an efficient strategy for solving the problem.				
MPE3. Check for reasonableness. I look back at my solution to see if my answer makes sense. If it does not, I try again.				
MPE4. Check my calculations. If I make mistakes, I correct them.				
<b>MPE5. Show my work.</b> I show or tell how I arrived at my answer so someone else can understand my thinking.				
MPE6. Use labels. I use labels to show what numbers mean.				

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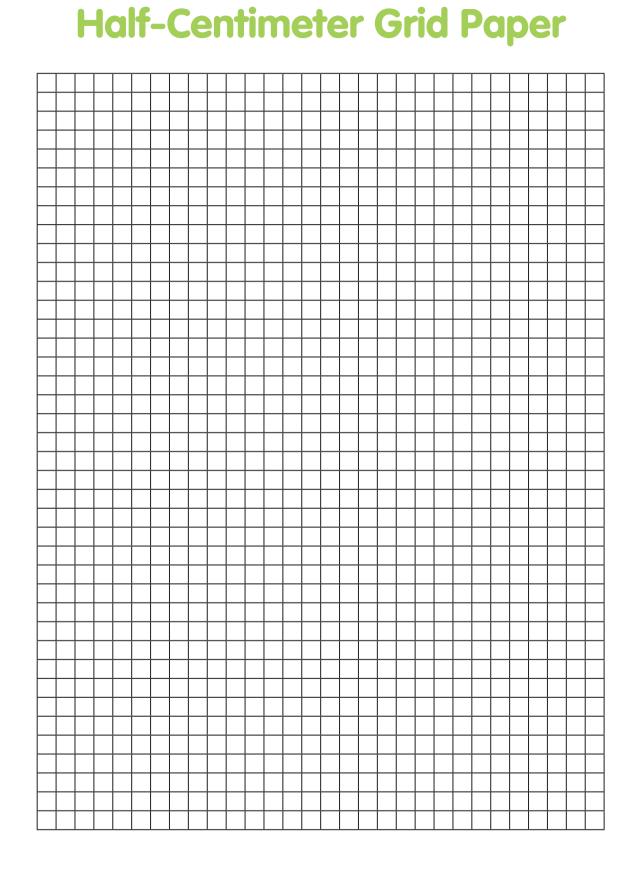
## **Multiplication Strategies Menu**

Date \_\_\_\_\_



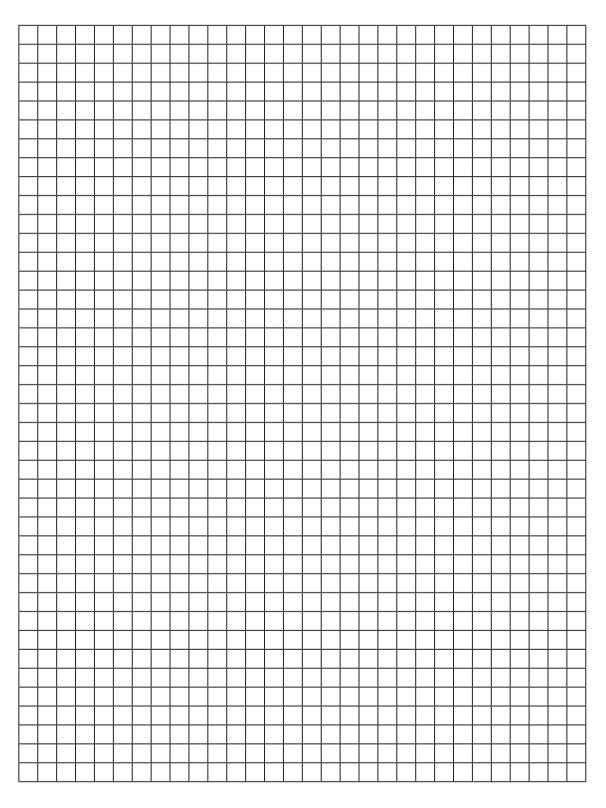
229

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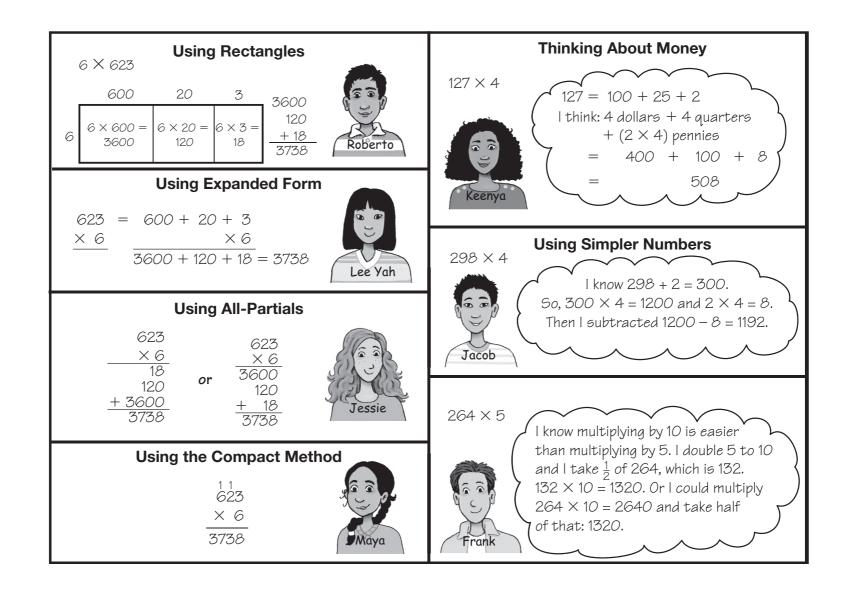
# Half-Centimeter Grid Paper



Name \_

Date \_\_\_

### **Multiplication Strategies Menu for Larger Numbers**



233

Lesson 7

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