Student Activity Book

Practice Multiplying with Tens

Questions 1–8 (SAB pp. 219–223)

1. Answers may vary. One possible response for each:
   - **A.** $6 \times 50 = 300$
   - **B.** $4 \times 400 = 1600$
   - **C.** $10 \times 400 = 4000$
   - **D.** $30 \times 30 = 900$
2. **B.** hundreds; 7×4 hundreds = 28 hundreds; 28 hundreds = 2800
   - **C.** 8 tens; 4×8 tens = 32 tens; 32 tens = 320
   - **D.** hundreds; 3 hundreds $\times 4$ = 12 hundreds, 12 hundreds = 1200
3. **B.** $7 \times 4 \times 100$; $(7 \times 4) \times 100 = 28 \times 100$; $28 \times 100 = 2800$
   - **C.** $4 \times 8 \times 10$; $(4 \times 8) \times 10 = 32 \times 10$; $32 \times 10 = 320$
   - **D.** $3 \times 100 \times 4$; $(3 \times 4) \times 100 = 12 \times 100$; $12 \times 100 = 1200$

Name _____ Date _____

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.	★Q 1–4	●Q 2–6, 8	■Q 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.

Ex. ||||||| ||||||| ||||||| |||||||

Number sentence: 4 × 70 = 280

A. ||||| ||||| |||||
||||| ||||| |||||

Number sentence: _____

B. □□ □□ □□ □□
□□ □□ □□ □□

Number sentence: _____

C. □□□□ □□□□ □□□□ □□□□ □□□□
□□□□ □□□□ □□□□ □□□□ □□□□

Number sentence: _____

***Student Activity Book* - Page 219**

Name _____ Date _____

D. ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
||| ||| ||| ||| ||| ||| ||| ||| ||| |||
||| ||| ||| ||| ||| ||| ||| ||| ||| |||

Number sentence: _____

★●**2.** 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.

A. $6 \times 30 = 6 \times 3$ tens

6×3 tens = 18 tens

18 tens = 180

B. $7 \times 400 = 7 \times 4$ _____

_____

_____

C. $4 \times 80 = 4 \times$ _____

_____

_____

D. $300 \times 4 = 3$ _____ $\times 4$

_____

_____

★●**3.** Rewrite the same problems from Question 2 and show how to solve them using Alexis's way. Question A is an example.

A. $6 \times 30 = 6 \times 3 \times 10$

$(6 \times 3) \times 10 = 18 \times 10$

$18 \times 10 = 180$

B. $7 \times 400 =$ _____

_____

_____

C. $4 \times 80 =$ _____

_____

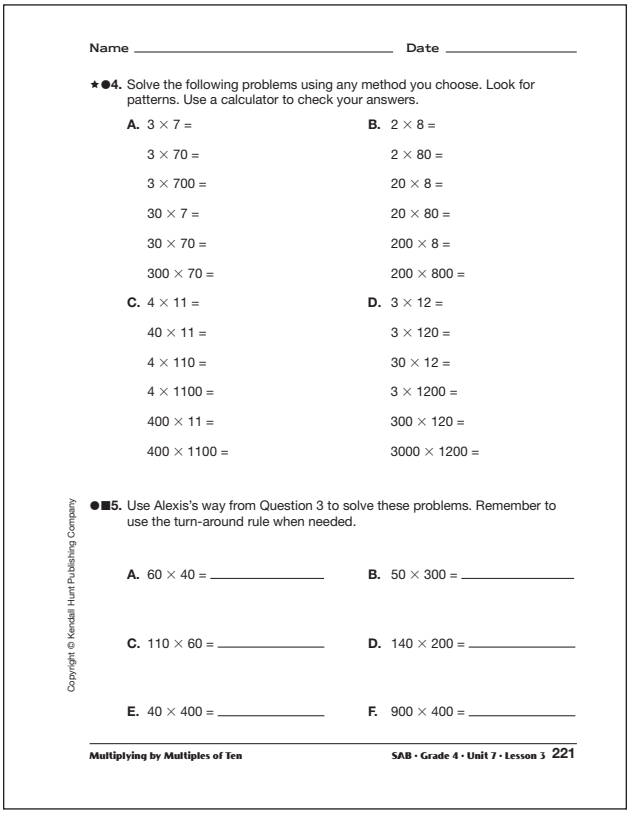
_____

D. $300 \times 4 =$ _____

_____

_____

***Student Activity Book* - Page 220**



Name _____ Date _____

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

A. 3 × 7 =
3 × 70 =
3 × 700 =
30 × 7 =
30 × 70 =
300 × 70 =

B. 2 × 8 =
2 × 80 =
20 × 8 =
20 × 80 =
200 × 8 =
200 × 800 =

C. 4 × 11 =
40 × 11 =
4 × 110 =
4 × 1100 =
400 × 11 =
400 × 1100 =

D. 3 × 12 =
3 × 120 =
30 × 12 =
3 × 1200 =
300 × 120 =
3000 × 1200 =

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

A. 60 × 40 = _____
B. 50 × 300 = _____
C. 110 × 60 = _____
D. 140 × 200 = _____
E. 40 × 400 = _____
F. 900 × 400 = _____

Multiplying by Multiples of Ten SAB • Grade 4 • Unit 7 • Lesson 3 221

***Student Activity Book* - Page 221**

4. A. 21
210
2100
210
2100
21,000

B. 16
160
160
1600
1600
160,000

C. 44
440
440
4400
4400
440,000

D. 36
360
360
3600
36,000
3,600,000

5. A. $6 \times 10 \times 4 \times 10$;
$(6 \times 4) \times (10 \times 10) = 24 \times 100$;
$24 \times 100 = 2400$

B. $5 \times 10 \times 3 \times 100$;
$(5 \times 3) \times (10 \times 100) = 15 \times 1000$;
$15 \times 1000 = 15{,}000$

C. $11 \times 10 \times 6 \times 10$;
$(11 \times 6) \times (10 \times 10) = 66 \times 100$;
$66 \times 100 = 6600$

D. $14 \times 10 \times 2 \times 100$;
$(14 \times 2) \times (10 \times 100) = 28 \times 1000$;
$28 \times 1000 = 28{,}000$

E. $4 \times 10 \times 4 \times 100$;
$(4 \times 4) \times (10 \times 100) = 16 \times 1000$;
$16 \times 1000 = 16{,}000$

F. $9 \times 100 \times 4 \times 100$;
$(9 \times 4) \times (100 \times 100) = 36 \times 10{,}000$;
$36 \times 10{,}000 = 360{,}000$

6. **A.** About 640 meters; $8 \times 80 = 640$
   B. 7000 newspapers; $2 \times 3500 = 7000$
   C. 35,000 students; $700 \times 50 = 35{,}000$
7. **A.** 451,000
   B. 790
   C. 8500
   D. 13,800
   E. 2,380,000
   F. 3640
   G. 65,000
   H. 4,800,000
8. **A.** 6000 miles; $6 \times 2 \times 2 \times 250 = 6000$
   B. 60,000 dominos; $40 \times 1500 = 60{,}000$

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.

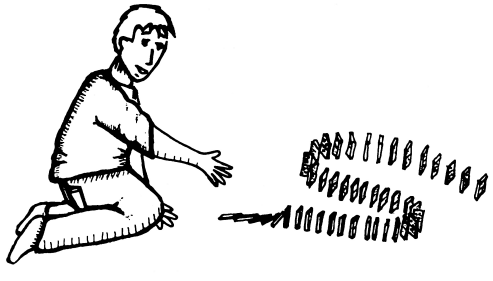
A. 451 thousands
B. 79 tens
C. 85 hundreds
D. 138 hundreds
E. 238 ten thousands
F. 364 tens
G. 65 thousands
H. 48 hundred thousands

***Student Activity Book* - Page 222**

Name _____ Date _____

●■**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?



***Student Activity Book* - Page 223**