

Supply List for School Year 2018-2019
Grade 3-18 (Ms. Goff)

6 Marble Notebooks

- 1 for each of the following subjects:

Math, Science, Reading, Social Studies, Writing,
and Spanish

Pack of Loose Leaf

4 Sharpened Pencils with Eraser (Everyday)

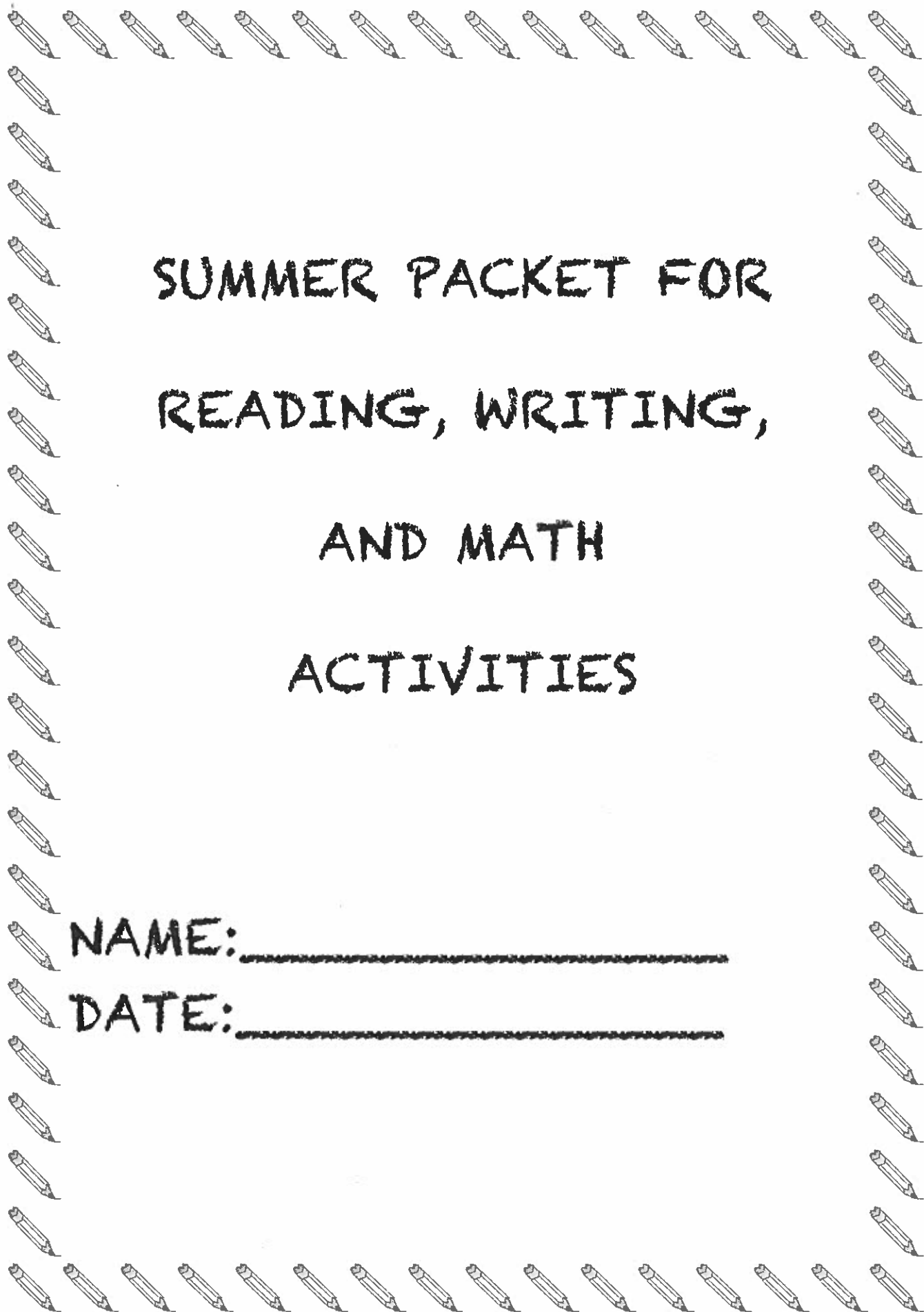
2 Paper Towels

2 Boxes Kleenex

2 Bottles of Hand Sanitizer (10 fl oz)

1 Box Resealable bags (gal capacity)

2 Pocket Folders

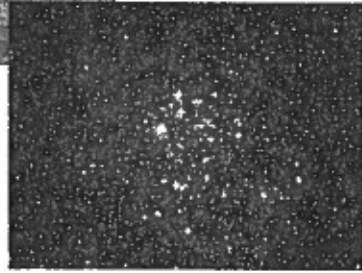
A decorative border of small, stylized pencils arranged in a rectangular frame around the text.

SUMMER PACKET FOR READING, WRITING, AND MATH ACTIVITIES

NAME: _____

DATE: _____

Objective Concepts (gravity, climate, solar system, hydrogen, helium, elements, ultraviolet rays, cluster, galaxy, Milky Way Galaxy); Sight words (surface, core, dangerous, causes, amount, glowing, tiny, twinkling)



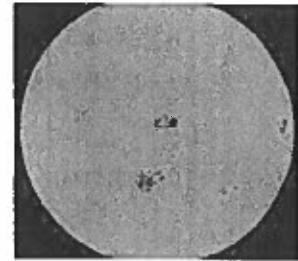
Vocabulary

surface	amount
core	glowing
dangerous	tiny
causes	twinkling

The Sun and the Stars

By: Sue Peterson

Scientists know many things about the Sun. They know how old it is. The Sun is more than 4½ billion years old. That would be too many candles to put on a birthday cake!



They also know the Sun's size. The Sun may seem small, but that is because it is so far away. It is about 93 million miles (150 million kilometers) away from the Earth. The Sun is so large that the diameter of the Sun is

moons, asteroid belt, comets, meteors, and other objects.

The Earth and other planets revolve around the Sun.

The Sun is very important. Without it, there would be only darkness and our planet would be very cold and be without liquid water. Our planet would also be without people, animals, and plants because these things need sunlight and water to live.

The Sun also gives out dangerous ultraviolet light which causes sunburn and may cause cancer. That is why you need to be careful of the Sun and wear sunscreen and clothing to protect yourself from its rays.

Scientists have learned many things about the Sun. They study the Sun using special tools or instruments such as telescopes. One thing they do is to look at the amount of light from the Sun and the effect of the Sun's light on the Earth's climate.

The Sun is actually a star. It is the closest star to the Earth. Scientists also study other stars, huge balls of glowing gas in the sky. There are over 200 billion stars in

Practice

Language Work

A. Fill in the blank and spell.

surface	s _ _ f a c _ _	_____
core	c _ _ e	_____
causes	c _ _ s e s	_____
amount	a m _ _ n t	_____
tiny	t _ n _	_____

B. Use each word in a sentence. Underline the word used.

dangerous _____

glowing _____

twinkling _____

3. What does the text say about the size of stars?

- ☐ a. They are all the same size.
- ☐ b. They are all small and you can see them twinkle.
- ☐ c. Some stars are larger than the Sun and others are smaller than the Earth.
- ☐ d. They are all smaller than the Sun.

Definitions (Write the meaning of each word as it is used in the text.)

1. surface

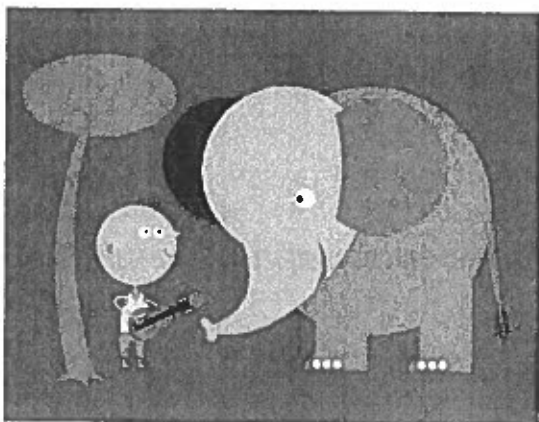
2. glowing

3. twinkling

Extended Response (Answer in complete sentences.)

1. Why do you think the author included a section on the Sun and another section on stars in the same text?

Objective sight words (device, signal, religious ceremony, composed, performed, melody, historians, classify, range of music); concepts (classification and types of musical instruments, culture, civilization, ritual, entertainment, non-durable, organology)



Vocabulary

device	melody
signal	historians
religious ceremony	classify
composed	range of music
performed	

Musical Instruments to Play

By: Sue Peterson

A musical instrument is a device created to make musical sounds. Anything that makes a sound can be used as a musical instrument.

The history of musical instruments goes back to the beginning of culture. People first used instruments as ritual: a hunter might use a trumpet to signal a successful hunt; a drum might be used in a religious ceremony.

produce sounds. The academic study of musical instruments is called organology.

Woodwinds and brass (sometimes called the “wind” instruments), string, percussion, electric, and keyboard are types of instruments grouped according to how they are made and the range of music and sounds they play.

Woodwind and brass instruments include the trumpet, clarinet, flute, oboe, trombone, tuba, and harmonica.

Stringed instruments include the banjo, guitar, harp, violin, and viola. Percussion instruments include the cymbal, chime, timpani, drum, and tambourine. Electronic instruments are the keyboard and the synthesizer.

Keyboard instruments include the accordion, organ, and piano.

Maybe you will play an instrument someday. Will it be a woodwind or brass, stringed, percussion, electronic or a keyboard instrument?

C. Matching. Draw a line to connect which musical instruments belong to the categories listed in the story.

- | | |
|-----------------------|-----------------------------|
| 1. woodwind and brass | a) banjo, guitar, harp |
| 2. stringed | b) trumpet, clarinet, flute |
| 3. percussion | c) keyboard, synthesizer |
| 4. keyboard | d) accordion, organ, piano |
| 5. electronic | e) cymbal, chime, drum |

D. Phonics work. The word "electronic" in the story ends in the letters "ic" that make a short "i" sound followed by a "k" sound. Write another word that has the "ic" letters to make the "ik" sound (a short i followed by the k sound).

The letter "y" in the word "history" is changed to "i" when adding the suffix "an", which means "of". So a "historian" is someone "of history", an "Italian" is someone "of Italy", etc. Write another word that has the "an" suffix. Write what the word means.

7

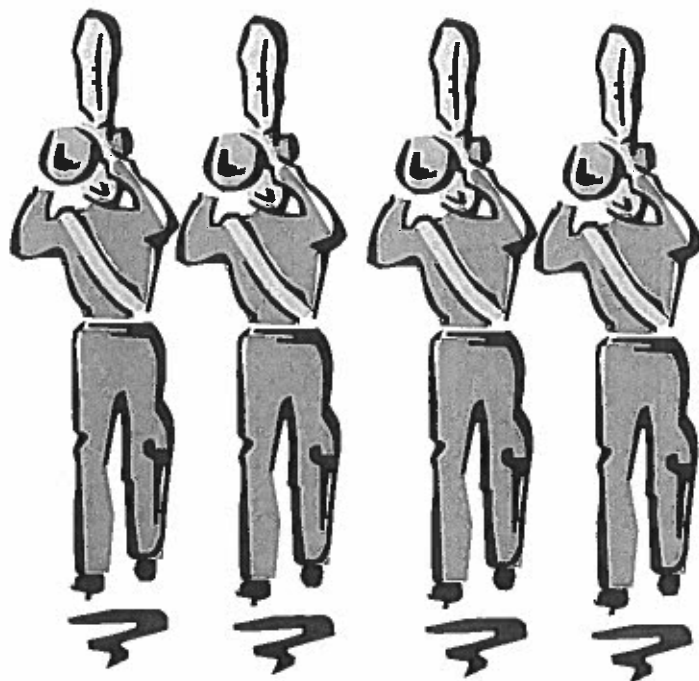
Multiple-Choice Questions (Put an X in front of the correct answer.)

1. The text mentions that musical instruments are made out of all of these materials **except** _____.
☐ a. animal skin
☐ b. bone
☐ c. rock
☐ d. wood
2. According to the text, what is the **most common** way of grouping instruments?
☐ a. by range of music played
☐ b. what they are made out of
☐ c. how they look
☐ d. how they produce sounds
3. According to the text, what was the **earliest** reported instrument?
☐ a. a simple piano
☐ b. a simple flute
☐ c. a simple guitar
☐ d. a simple harp

Definitions (Write the meaning of each word as it is used in the text.)

1. device
2. signal
3. composed

4. If you could play any instrument, what would it be? Why?



Directions: Write a creative story to go along with the picture.

(title)

Written by: _____
(your name)



Name _____

**Prerequisite Skills
Inventory for Grade 3
Page 1**

Write the correct answer.

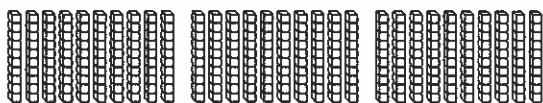
1. Amy has sixty-three stamps in her collection. Write sixty-three another way.

_____ tens _____ ones

2. Harry counts by tens. Write the number that Harry will say next.

150, 160, 170, 180, _____

3. Mr. Jenkins uses blocks to model a number. Write how many hundreds his model shows.



4. There are 257 sports books in the school library. Write the value of the digit 5 in the number 257.

5. Aiesha wrote this number pattern. What two numbers are next in the pattern?

168, 268, 368, 468, _____, _____

6. Sam sees 5 red balloons, 8 blue balloons, and 2 yellow balloons. Write the sum to name how many balloons he sees in all.

$$\begin{array}{r} 5 \\ 8 \\ + 2 \\ \hline \end{array}$$

_____ balloons

7. Jeremiah uses related facts to solve a subtraction problem. Write the sum and difference.

$$8 + 3 = \underline{\hspace{2cm}}$$

$$11 - 8 = \underline{\hspace{2cm}}$$

GO ON 

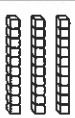



Name _____

**Prerequisite Skills
Inventory for Grade 3
Page 2**

8. Amara puts 4 blocks in each tower. How many blocks are in 3 towers?

9. There are 34 girls and 29 boys in the school play. How many girls and boys are in the school play?


10. Juan adds $35 + 16$.

Tens	Ones
	
	

Draw to show the regrouping. Write how many tens and ones are in the sum $35 + 16$.

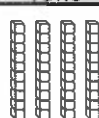
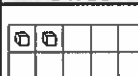

_____ tens _____ ones

11. What is the sum?

Tens	Ones
	
5	7
+ 2	6
<hr/>	

12. Mr. Stapp baked 24 blueberry muffins and 36 banana-nut muffins. Write a number sentence that tells how many muffins he baked.

13. Finn subtracts 16 from 42.

Tens	Ones
	
	

Draw to show the regrouping. Write how many tens and ones are in the difference $42 - 16$.

_____ tens _____ ones

GO ON 

Name _____

14. What is the difference?

	Tens	Ones
	<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto; text-align: center;"> </div>	<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto; text-align: center;"> </div>
	6	2
—	3	5

15. There were some grapes in a bowl. Jess ate 14 grapes. Now there are 29 grapes in the bowl. How many grapes were in the bowl to start?

Write a number sentence for the problem. Use a ■ for the unknown number. Then solve.

_____ grapes

16. Ty scored 12 points in the basketball game. Kevin scored 4 more points than Ty. How many points did Ty and Kevin score in all?

_____ points

17. There are 725 people sitting in the airport waiting area. There are another 119 people standing in the airport waiting area. How many people in all are in the airport waiting area?

_____ people

18. On Saturday 452 people attend a boat show. 379 people attend the show on Sunday. How many people attend the show on both days?

_____ people

19. Crosby had 213 trading cards in his collection. He gave 117 cards to his younger brother. How many trading cards does Crosby have left?

_____ trading cards

20. A theater has 405 seats. The theater has sold 356 tickets for seats to a play on Friday. How many empty seats will there be at the play?

_____ seats

GO ON 

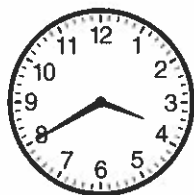
Name _____

**Prerequisite Skills
Inventory for Grade 3
Page 4**

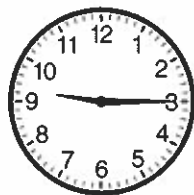
- 21.** Dominic gets on the bus at the time shown on the clock. What time does Dominic get on the bus?



- 22.** Debbie arrives home from school at the time shown on the clock. What time does Debbie arrive home from school?



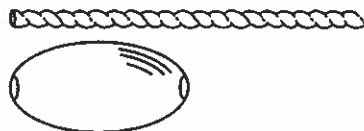
- 23.** Anna Lucia went to bed at the time shown on the clock.



What time did Anna Lucia go to bed? Circle the correct time.

9:15 A.M. 9:15 P.M.

- 24.** Peter has some beads that are each 1 inch long. He wants to put them on this string.



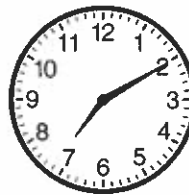
Circle the best estimate for the length of the string.

2 inches 4 inches 6 inches

- 25.** Use an inch ruler. What is the length of the pin to the nearest inch?



- 26.** Aubree started getting ready for school at the time shown on the clock.



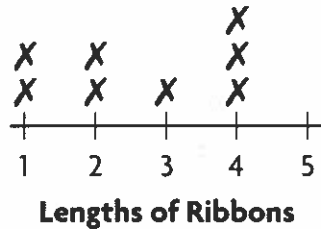
What time did Aubree start getting ready for school? Circle the correct time.

7:10 A.M. 7:10 P.M.



Name _____

27. Hannah measured ribbon pieces to the nearest inch. She recorded some of the data in the line plot.



Two more pieces each measured 5 inches. How can she show this in the line plot?

28. Use a centimeter ruler. What is the length of the worm to the nearest centimeter?



29. Ella made the tally chart shown.

Favorite Fruit	
Fruit	Tally
Bananas	
Apples	
Oranges	
Peaches	

Which fruit did the most classmates choose?

30. The picture graph shows the favorite playground activities of some students in Andy's class.

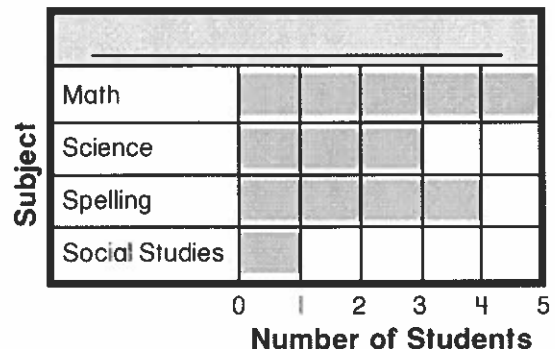
Favorite Playground Activity				
Swings	😊	😊	😊	
Slide	😊	😊	😊	😊
Teeter totter	😊	😊	😊	
Monkey bars	😊	😊		

Key: Each 😊 stands for 1 student.

How many students in all chose the swings or the slide?

_____ students

Use the bar graph for Questions 31 and 32.



31. Write a title for the bar graph.
- _____

32. How many students chose spelling?

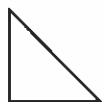
_____ students

GO ON ➔

Name _____

33. Max draws a quadrilateral. Draw Max's shape.

34. How many sides and vertices does the triangle have?



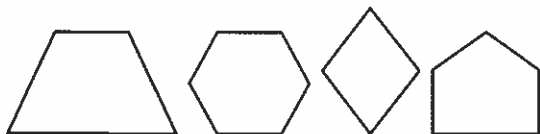
_____ sides _____ vertices

35. Belinda drew a shape. How many vertices does her shape have?

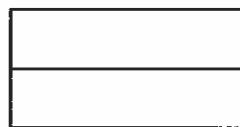


_____ vertices

36. Circle the shapes that have more than 4 sides.



37. How many equal parts are in the whole? Write *halves*, *thirds*, or *fourths* to name the equal parts.



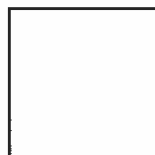
_____ parts

38. How many equal parts are in the whole? Write *halves*, *thirds*, or *fourths* to name the equal parts.

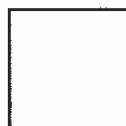


_____ parts

39. Draw to show halves.
Color half of the shape.



40. Mrs. Parker has two pizzas that are the same size. Draw to show two different ways she can divide the pizza into fourths.



0	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Multiplying By 0 (A)

Find each product.

0	0	0	7	0	3	11	1	0	10
<u>× 8</u>	<u>× 4</u>	<u>× 5</u>	<u>× 0</u>	<u>× 6</u>	<u>× 0</u>	<u>× 0</u>	<u>× 0</u>	<u>× 12</u>	<u>× 0</u>

0	11	0	4	12	0	0	5	8	0
<u>× 3</u>	<u>× 0</u>	<u>× 7</u>	<u>× 0</u>	<u>× 0</u>	<u>× 9</u>	<u>× 6</u>	<u>× 0</u>	<u>× 0</u>	<u>× 1</u>

0	0	1	6	10	7	0	0	2	0
<u>× 3</u>	<u>× 12</u>	<u>× 0</u>	<u>× 0</u>	<u>× 0</u>	<u>× 0</u>	<u>× 9</u>	<u>× 11</u>	<u>× 0</u>	<u>× 5</u>

0	12	7	1	8	0	6	11	0	0
<u>× 4</u>	<u>× 0</u>	<u>× 0</u>	<u>× 0</u>	<u>× 0</u>	<u>× 5</u>	<u>× 0</u>	<u>× 0</u>	<u>× 3</u>	<u>× 2</u>

2	0	7	11	12	5	10	0	6	0
$\times 0$	$\times 3$	$\times 0$	$\times 0$	$\times 0$	$\times 0$	$\times 0$	$\times 8$	$\times 0$	$\times 9$

10	0	0	9	0	0	8	0	0	0
× 0	× 12	× 6	× 0	× 5	× 3	× 0	× 1	× 4	× 2

0	6	0	9	0	0	0	2	0	0
<u>× 7</u>	<u>× 0</u>	<u>× 4</u>	<u>× 0</u>	<u>× 10</u>	<u>× 8</u>	<u>× 12</u>	<u>× 0</u>	<u>× 5</u>	<u>× 1</u>

0	0	4	3	6	11	8	0	0	0
<u>× 2</u>	<u>× 12</u>	<u>× 0</u>	<u>× 0</u>	<u>× 0</u>	<u>× 0</u>	<u>× 0</u>	<u>× 10</u>	<u>× 5</u>	<u>× 1</u>

0	0	0	0	0	0	6	5	0	2
× 3	× 4	× 1	× 8	× 7	× 9	× 0	× 0	× 11	× 0

0	0	0	5	0	4	0	3	1	2
<u>× 11</u>	<u>× 12</u>	<u>× 9</u>	<u>× 0</u>	<u>× 6</u>	<u>× 0</u>	<u>× 10</u>	<u>× 0</u>	<u>× 0</u>	<u>× 0</u>

Multiplying By 1 (A)

Find each product.

$$\begin{array}{r} 4 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 6 \\ \hline \end{array}$$

1	1	1	1	1	12	4	1	1	1
<u>× 9</u>	<u>× 6</u>	<u>× 10</u>	<u>× 5</u>	<u>× 2</u>	<u>× 1</u>	<u>× 1</u>	<u>× 1</u>	<u>× 8</u>	<u>× 7</u>

1	4	12	1	1	1	8	1	6	1
<u>× 7</u>	<u>× 1</u>	<u>× 1</u>	<u>× 3</u>	<u>× 1</u>	<u>× 5</u>	<u>× 1</u>	<u>× 9</u>	<u>× 1</u>	<u>× 10</u>

4	3	6	9	2	1	8	1	1	1
<u>$\times 1$</u>	<u>$\times 1$</u>	<u>$\times 1$</u>	<u>$\times 1$</u>	<u>$\times 1$</u>	<u>$\times 1$</u>	<u>$\times 1$</u>	<u>$\times 5$</u>	<u>$\times 10$</u>	<u>$\times 12$</u>

3	5	1	1	11	1	1	7	9	1
<u>× 1</u>	<u>× 1</u>	<u>× 1</u>	<u>× 2</u>	<u>× 1</u>	<u>× 8</u>	<u>× 12</u>	<u>× 1</u>	<u>× 1</u>	<u>× 4</u>

8	4	5	1	7	1	1	11	1	3
<u>× 1</u>	<u>× 1</u>	<u>× 1</u>	<u>× 2</u>	<u>× 1</u>	<u>× 1</u>	<u>× 6</u>	<u>× 1</u>	<u>× 10</u>	<u>× 1</u>

11	1	5	1	1	1	1	1	8	7
<u>× 1</u>	<u>× 3</u>	<u>× 1</u>	<u>× 10</u>	<u>× 12</u>	<u>× 2</u>	<u>× 6</u>	<u>× 1</u>	<u>× 1</u>	<u>× 1</u>

3	1	1	10	1	4	1	9	2	1
<u>× 1</u>	<u>× 5</u>	<u>× 8</u>	<u>× 1</u>	<u>× 11</u>	<u>× 1</u>	<u>× 6</u>	<u>× 1</u>	<u>× 1</u>	<u>× 1</u>

5	2	1	6	1	1	11	1	1	1
<u>× 1</u>	<u>× 1</u>	<u>× 10</u>	<u>× 1</u>	<u>× 9</u>	<u>× 1</u>	<u>× 1</u>	<u>× 12</u>	<u>× 7</u>	<u>× 4</u>

3	4	1	1	1	1	12	11	6	1
<u>× 1</u>	<u>× 1</u>	<u>× 1</u>	<u>× 8</u>	<u>× 9</u>	<u>× 7</u>	<u>× 1</u>	<u>× 1</u>	<u>× 1</u>	<u>× 10</u>

Multiplying By 2 (A)

Find each product.

2	2	2	2	8	2	2	11	2	2
<u>× 3</u>	<u>× 4</u>	<u>× 7</u>	<u>× 12</u>	<u>× 2</u>	<u>× 10</u>	<u>× 1</u>	<u>× 2</u>	<u>× 5</u>	<u>× 2</u>

2	2	2	11	5	7	2	6	2	4
$\times 10$	$\times 1$	$\times 2$	$\times 2$	$\times 2$	$\times 2$	$\times 8$	$\times 2$	$\times 12$	$\times 2$

10	5	2	6	3	2	2	2	2	2
× 2	× 2	× 2	× 2	× 2	× 12	× 1	× 9	× 4	× 8

7	2	2	9	12	2	5	2	2	2
<u>× 2</u>	<u>× 8</u>	<u>× 1</u>	<u>× 2</u>	<u>× 2</u>	<u>× 4</u>	<u>× 2</u>	<u>× 6</u>	<u>× 11</u>	<u>× 10</u>

2	2	2	9	7	2	2	1	2	3
<u>× 2</u>	<u>× 8</u>	<u>× 4</u>	<u>× 2</u>	<u>× 2</u>	<u>× 6</u>	<u>× 5</u>	<u>× 2</u>	<u>× 11</u>	<u>× 2</u>

2	2	2	8	2	12	2	11	7	4
× 9	× 3	× 2	× 2	× 5	× 2	× 6	× 2	× 2	× 2

2	2	2	1	2	8	2	11	2	10
<u>× 6</u>	<u>× 2</u>	<u>× 3</u>	<u>× 2</u>	<u>× 9</u>	<u>× 2</u>	<u>× 7</u>	<u>× 2</u>	<u>× 4</u>	<u>× 2</u>

11	8	2	2	2	2	1	12	7	10
<u>× 2</u>	<u>× 2</u>	<u>× 3</u>	<u>× 6</u>	<u>× 9</u>	<u>× 4</u>	<u>× 2</u>	<u>× 2</u>	<u>× 2</u>	<u>× 2</u>

2	7	2	2	2	2	2	2	8	2
× 6	× 2	× 5	× 1	× 10	× 2	× 11	× 4	× 2	× 12

10	2	2	12	4	2	2	2	5	6
<u>× 2</u>	<u>× 3</u>	<u>× 1</u>	<u>× 2</u>	<u>× 2</u>	<u>× 2</u>	<u>× 8</u>	<u>× 7</u>	<u>× 2</u>	<u>× 2</u>

Multiplying By 3 (A)

Find each product.

2	8	3	3	3	9	6	5	11	10
<u>× 3</u>	<u>× 3</u>	<u>× 12</u>	<u>× 4</u>	<u>× 1</u>	<u>× 3</u>	<u>× 3</u>	<u>× 3</u>	<u>× 3</u>	<u>× 3</u>

12	3	4	3	3	3	8	3	3	1
<u>× 3</u>	<u>× 11</u>	<u>× 3</u>	<u>× 2</u>	<u>× 3</u>	<u>× 5</u>	<u>× 3</u>	<u>× 6</u>	<u>× 10</u>	<u>× 3</u>

3	3	3	3	3	6	4	8	3	2
× 9	× 3	× 7	× 10	× 5	× 3	× 3	× 3	× 1	× 3

7	2	9	3	3	3	3	3	12	8
<u>× 3</u>	<u>× 3</u>	<u>× 3</u>	<u>× 10</u>	<u>× 1</u>	<u>× 3</u>	<u>× 5</u>	<u>× 4</u>	<u>× 3</u>	<u>× 3</u>

3	11	5	7	2	9	8	3	12	3
<u>× 4</u>	<u>× 3</u>	<u>× 3</u>	<u>× 3</u>	<u>× 3</u>	<u>× 3</u>	<u>× 3</u>	<u>× 10</u>	<u>× 3</u>	<u>× 1</u>

3	4	3	3	1	7	3	8	10	11
<u>× 5</u>	<u>× 3</u>	<u>× 3</u>	<u>× 9</u>	<u>× 3</u>	<u>× 3</u>	<u>× 2</u>	<u>× 3</u>	<u>× 3</u>	<u>× 3</u>

$$\begin{array}{r} 3 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 12 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$$

10	5	7	3	12	6	3	3	11	3
<u>× 3</u>	<u>× 3</u>	<u>× 3</u>	<u>× 3</u>	<u>× 3</u>	<u>× 3</u>	<u>× 8</u>	<u>× 2</u>	<u>× 3</u>	<u>× 4</u>

$$\begin{array}{r} 3 \\ \times 12 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 11 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$$

3	1	3	4	3	7	3	3	5	6
<u>× 9</u>	<u>× 3</u>	<u>× 8</u>	<u>× 3</u>	<u>× 10</u>	<u>× 3</u>	<u>× 12</u>	<u>× 11</u>	<u>× 3</u>	<u>× 3</u>

Multiplying By 4 (A)

Find each product.

4	4	8	11	3	1	4	10	4	9
<u>× 5</u>	<u>× 4</u>	<u>× 4</u>	<u>× 4</u>	<u>× 4</u>	<u>× 4</u>	<u>× 2</u>	<u>× 4</u>	<u>× 7</u>	<u>× 4</u>

$$\begin{array}{r} 4 \\ \times 10 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 1 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 8 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 11 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 9 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 12 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$$

10	4	4	2	1	4	7	4	4	4
$\times 4$	$\times 9$	$\times 11$	$\times 4$	$\times 4$	$\times 6$	$\times 4$	$\times 3$	$\times 12$	$\times 5$

4	6	4	4	4	4	4	3	10	9
$\times 2$	$\times 4$	$\times 7$	$\times 1$	$\times 8$	$\times 4$	$\times 12$	$\times 4$	$\times 4$	$\times 4$

12	4	5	7	1	8	6	4	4	4
$\times 4$	$\times 4$	$\times 4$	$\times 4$	$\times 4$	$\times 4$	$\times 4$	$\times 2$	$\times 11$	$\times 9$

4	11	4	4	4	7	4	4	1	8
$\times 12$	$\times 4$	$\times 4$	$\times 3$	$\times 5$	$\times 4$	$\times 6$	$\times 9$	$\times 4$	$\times 4$

[illegible]

4	4	8	11	4	5	4	1	4	12
$\times 4$	$\times 7$	$\times 4$	$\times 4$	$\times 3$	$\times 4$	$\times 6$	$\times 4$	$\times 10$	$\times 4$

1	6	4	10	4	4	4	4	12	5
$\times 4$	$\times 4$	$\times 9$	$\times 4$	$\times 11$	$\times 7$	$\times 2$	$\times 4$	$\times 4$	$\times 4$

$$\begin{array}{r} 4 \\ \times 12 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 10 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 11 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$$

Multiplying By 5 (A)

Find each product.

3	7	12	4	5	2	5	9	5	10
<u>× 5</u>	<u>× 5</u>	<u>× 5</u>	<u>× 5</u>	<u>× 1</u>	<u>× 5</u>	<u>× 5</u>	<u>× 5</u>	<u>× 11</u>	<u>× 5</u>

5	6	5	1	5	5	10	5	5	3
$\times 7$	$\times 5$	$\times 9$	$\times 5$	$\times 11$	$\times 5$	$\times 5$	$\times 12$	$\times 8$	$\times 5$

8	5	3	5	5	12	5	5	6	5
× 5	× 1	× 5	× 10	× 7	× 5	× 9	× 5	× 5	× 4

4	5	5	2	5	3	12	5	5	5
× 5	× 1	× 10	× 5	× 6	× 5	× 5	× 11	× 8	× 9

3	6	2	5	8	1	11	9	5	5
$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 12$	$\times 10$

5	10	8	12	5	1	5	5	4	5
× 5	× 5	× 5	× 5	× 6	× 5	× 3	× 2	× 5	× 9

5	10	5	5	5	8	2	5	5	3
$\times 12$	$\times 5$	$\times 6$	$\times 11$	$\times 4$	$\times 5$	$\times 5$	$\times 1$	$\times 7$	$\times 5$

5	5	8	9	6	5	7	5	10	5
$\times 2$	$\times 12$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 5$	$\times 1$	$\times 5$	$\times 11$

$$\begin{array}{cccccccccc} 2 & 5 & 5 & 5 & 5 & 11 & 5 & 5 & 5 & 5 \\ \times 5 & \times 8 & \times 5 & \times 10 & \times 12 & \times 5 & \times 9 & \times 4 & \times 1 & \times 7 \end{array}$$

5	6	5	4	5	5	12	3	2	5
$\times 1$	$\times 5$	$\times 9$	$\times 5$	$\times 10$	$\times 7$	$\times 5$	$\times 5$	$\times 5$	$\times 8$

Multiplying By 6 (A)

Find each product.

4	7	1	6	3	5	6	2	6	6
$\times 6$	$\times 6$	$\times 6$	$\times 12$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 10$	$\times 9$

6	9	8	4	6	12	6	10	3	11
$\times 1$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 7$	$\times 6$	$\times 6$	$\times 6$

4	2	6	7	11	3	6	6	12	6
$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 8$	$\times 1$	$\times 6$	$\times 9$

9	6	11	3	4	1	6	6	6	6
$\times 6$	$\times 5$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 8$	$\times 12$	$\times 2$	$\times 10$

1	6	6	6	4	6	5	7	6	6
$\times 6$	$\times 6$	$\times 11$	$\times 2$	$\times 6$	$\times 3$	$\times 6$	$\times 6$	$\times 9$	$\times 10$

4	1	5	6	3	8	9	6	10	11
x 6	x 6	x 6	x 12	x 6	x 6	x 6	x 6	x 6	x 6

12	4	10	6	6	5	1	7	11	2
$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 8$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$

4	6	10	6	6	6	6	6	8	6
× 6	× 3	× 6	× 1	× 7	× 6	× 5	× 11	× 6	× 9

2	7	6	6	6	6	6	3	6	6
× 6	× 6	× 6	× 8	× 10	× 12	× 4	× 6	× 11	× 9

6	12	10	9	3	1	6	4	6	6
$\times 11$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 6$	$\times 7$	$\times 8$

Multiplying By 7 (A)

Find each product.

7	4	7	7	7	9	3	7	2	7
× 8	× 7	× 6	× 11	× 10	× 7	× 7	× 7	× 7	× 1

2	7	7	8	7	4	6	7	7	12
× 7	× 5	× 10	× 7	× 9	× 7	× 7	× 1	× 7	× 7

11	6	9	10	7	7	12	7	3	1
$\times 7$	$\times 7$	$\times 7$	$\times 7$	$\times 4$	$\times 7$	$\times 7$	$\times 8$	$\times 7$	$\times 7$

2 7 7 3 7 5 10 7 7 7
 × 7 × 12 × 7 × 7 × 8 × 7 × 7 × 9 × 4 × 1

8	9	12	10	7	7	7	4	7	1
$\times 7$	$\times 7$	$\times 7$	$\times 7$	$\times 3$	$\times 11$	$\times 2$	$\times 7$	$\times 7$	$\times 7$

7	4	7	7	7	12	7	7	2	1
× 6	× 7	× 9	× 3	× 10	× 7	× 5	× 8	× 7	× 7

7	2	4	7	10	7	11	7	7	9
× 6	× 7	× 7	× 7	× 7	× 3	× 7	× 1	× 8	× 7

7	7	7	11	1	7	6	10	7	3
$\times 7$	$\times 12$	$\times 9$	$\times 7$	$\times 7$	$\times 5$	$\times 7$	$\times 7$	$\times 4$	$\times 7$

$$\begin{array}{cccccccccc} 7 & 7 & 7 & 2 & 7 & 4 & 5 & 7 & 9 & 7 \\ \times 8 & \times 6 & \times 7 & \times 7 & \times 3 & \times 7 & \times 7 & \times 12 & \times 7 & \times 11 \end{array}$$

1	7	7	7	4	3	6	2	7	7
× 7	× 9	× 8	× 11	× 7	× 7	× 7	× 7	× 12	× 7

Multiplying By 8 (A)

Find each product.

8	8	11	2	8	8	7	12	3	9
<u>× 1</u>	<u>× 6</u>	<u>× 8</u>	<u>× 8</u>	<u>× 4</u>	<u>× 8</u>	<u>× 8</u>	<u>× 8</u>	<u>× 8</u>	<u>× 8</u>

8	5	8	10	7	8	8	9	2	6
$\times 3$	$\times 8$	$\times 12$	$\times 8$	$\times 8$	$\times 11$	$\times 8$	$\times 8$	$\times 8$	$\times 8$

4	3	8	2	9	8	7	8	11	8
$\times 8$	$\times 8$	$\times 12$	$\times 8$	$\times 8$	$\times 5$	$\times 8$	$\times 1$	$\times 8$	$\times 8$

11	10	8	8	8	5	2	12	1	8
× 8	× 8	× 7	× 8	× 9	× 8	× 8	× 8	× 8	× 6

4	8	8	9	8	6	5	8	12	8
$\times 8$	$\times 2$	$\times 10$	$\times 8$	$\times 7$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 1$

5	8	7	8	2	8	8	11	8	10
$\times 8$	$\times 9$	$\times 8$	$\times 1$	$\times 8$	$\times 12$	$\times 3$	$\times 8$	$\times 4$	$\times 8$

1	8	9	8	5	3	4	12	8	2
x 8	x 10	x 8	x 11	x 8	x 8	x 8	x 8	x 8	x 8

8	8	12	8	8	8	8	3	8	8
$\times 10$	$\times 2$	$\times 8$	$\times 11$	$\times 1$	$\times 8$	$\times 5$	$\times 8$	$\times 4$	$\times 6$

6	10	8	3	8	1	8	8	8	8
$\times 8$	$\times 8$	$\times 5$	$\times 8$	$\times 12$	$\times 8$	$\times 9$	$\times 8$	$\times 7$	$\times 4$

9	10	6	8	5	8	11	2	8	8
$\times 8$	$\times 8$	$\times 8$	$\times 7$	$\times 8$	$\times 8$	$\times 8$	$\times 8$	$\times 4$	$\times 3$

Multiplying By 9 (A)

Find each product.

4	9	3	2	9	9	12	8	10	9
$\times 9$	$\times 6$	$\times 9$	$\times 9$	$\times 9$	$\times 5$	$\times 9$	$\times 9$	$\times 9$	$\times 11$

3	9	9	9	9	9	9	9	9	12
× 9	× 2	× 1	× 9	× 6	× 8	× 10	× 7	× 4	× 9

8	9	6	4	9	10	7	3	9	1
$\times 9$	$\times 9$	$\times 9$	$\times 9$	$\times 5$	$\times 9$	$\times 9$	$\times 9$	$\times 11$	$\times 9$

8	9	9	9	12	9	9	9	9	1
$\times 9$	$\times 7$	$\times 5$	$\times 9$	$\times 9$	$\times 4$	$\times 6$	$\times 11$	$\times 2$	$\times 9$

9	1	2	9	4	10	9	9	8	9
× 3	× 9	× 9	× 11	× 9	× 9	× 7	× 12	× 9	× 9

$$\begin{array}{cccccccccc} 9 & 9 & 9 & 9 & 9 & 8 & 9 & 4 & 9 & 9 \\ \times 11 & \times 10 & \times 2 & \times 12 & \times 3 & \times 9 & \times 9 & \times 9 & \times 1 & \times 6 \end{array}$$

1	9	5	9	6	3	9	9	9	9
$\times 9$	$\times 9$	$\times 9$	$\times 12$	$\times 9$	$\times 9$	$\times 7$	$\times 2$	$\times 8$	$\times 10$

7	9	3	9	9	9	9	11	12	9
$\times 9$	$\times 4$	$\times 9$	$\times 8$	$\times 5$	$\times 9$	$\times 2$	$\times 9$	$\times 9$	$\times 6$

9	4	9	1	7	9	9	9	8	5
$\times 9$	$\times 9$	$\times 11$	$\times 9$	$\times 9$	$\times 10$	$\times 3$	$\times 6$	$\times 9$	$\times 9$

6	7	2	9	9	11	8	9	9	3
$\times 9$	$\times 9$	$\times 9$	$\times 10$	$\times 5$	$\times 9$	$\times 9$	$\times 1$	$\times 9$	$\times 9$

Multiplying By 10 (A)

Find each product.

3	10	10	7	10	2	10	10	5	10
<u>$\times 10$</u>	<u>$\times 9$</u>	<u>$\times 10$</u>	<u>$\times 10$</u>	<u>$\times 1$</u>	<u>$\times 10$</u>	<u>$\times 6$</u>	<u>$\times 12$</u>	<u>$\times 10$</u>	<u>$\times 8$</u>

10	10	7	10	1	10	4	5	8	3
<u>$\times 10$</u>	<u>$\times 12$</u>	<u>$\times 10$</u>	<u>$\times 6$</u>	<u>$\times 10$</u>	<u>$\times 9$</u>	<u>$\times 10$</u>	<u>$\times 10$</u>	<u>$\times 10$</u>	<u>$\times 10$</u>

10	10	10	10	11	10	3	10	2	4
× 6	× 12	× 1	× 7	× 10	× 9	× 10	× 8	× 10	× 10

10	9	4	5	1	10	10	10	10	7
<u>× 6</u>	<u>× 10</u>	<u>× 10</u>	<u>× 10</u>	<u>× 10</u>	<u>× 3</u>	<u>× 2</u>	<u>× 12</u>	<u>× 10</u>	<u>× 10</u>

8	5	10	10	6	10	10	4	10	10
$\times 10$	$\times 10$	$\times 2$	$\times 1$	$\times 10$	$\times 9$	$\times 7$	$\times 10$	$\times 10$	$\times 3$

10	10	10	12	10	10	10	7	10	10
× 8	× 2	× 9	× 10	× 10	× 11	× 6	× 10	× 5	× 4

4	10	10	10	10	7	10	10	10	9
<u>$\times 10$</u>	<u>$\times 2$</u>	<u>$\times 5$</u>	<u>$\times 3$</u>	<u>$\times 1$</u>	<u>$\times 10$</u>	<u>$\times 6$</u>	<u>$\times 12$</u>	<u>$\times 10$</u>	<u>$\times 10$</u>

10	10	4	5	10	7	1	10	11	9
<u>× 2</u>	<u>× 12</u>	<u>× 10</u>	<u>× 10</u>	<u>× 10</u>	<u>× 10</u>	<u>× 10</u>	<u>× 3</u>	<u>× 10</u>	<u>× 10</u>

4	2	10	10	8	1	10	10	10	11
$\times 10$	$\times 10$	$\times 5$	$\times 6$	$\times 10$	$\times 10$	$\times 3$	$\times 7$	$\times 9$	$\times 10$

7	10	12	6	2	9	10	1	10	3
$\times 10$	$\times 10$	$\times 10$	$\times 10$	$\times 10$	$\times 10$	$\times 11$	$\times 10$	$\times 5$	$\times 10$

Multiplying By 11 (A)

Find each product.

3	11	11	9	10	8	1	2	11	11
<u>x 11</u>	<u>x 11</u>	<u>x 5</u>	<u>x 11</u>	<u>x 11</u>	<u>x 11</u>	<u>x 11</u>	<u>x 11</u>	<u>x 7</u>	<u>x 6</u>

$$\begin{array}{r} 8 \\ \times 11 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 11 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 11 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ \times 11 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 11 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ \times 11 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ \times 3 \\ \hline \end{array}$$

10	3	6	2	11	7	11	11	11	11
<u>× 11</u>	<u>× 11</u>	<u>× 11</u>	<u>× 11</u>	<u>× 12</u>	<u>× 11</u>	<u>× 4</u>	<u>× 5</u>	<u>× 11</u>	<u>× 9</u>

11	11	11	8	11	11	3	5	10	11
<u>× 7</u>	<u>× 11</u>	<u>× 2</u>	<u>× 11</u>	<u>× 4</u>	<u>× 9</u>	<u>× 11</u>	<u>× 11</u>	<u>× 11</u>	<u>× 12</u>

11	11	11	11	12	11	11	11	2	11
$\times 1$	$\times 10$	$\times 5$	$\times 7$	$\times 11$	$\times 6$	$\times 11$	$\times 3$	$\times 11$	$\times 9$

11	11	8	6	11	10	2	11	11	11
× 3	× 9	× 11	× 11	× 7	× 11	× 11	× 1	× 5	× 11

11	8	12	11	4	10	11	2	11	11
× 5	× 11	× 11	× 3	× 11	× 11	× 11	× 11	× 1	× 9

4	7	10	8	3	12	11	5	6	11
$\times 11$	$\times 11$	$\times 11$	$\times 11$	$\times 11$	$\times 11$	$\times 9$	$\times 11$	$\times 11$	$\times 11$

6	9	11	7	11	11	11	11	11	11
$\times 11$	$\times 11$	$\times 3$	$\times 11$	$\times 1$	$\times 5$	$\times 12$	$\times 10$	$\times 11$	$\times 8$

11	11	11	7	1	9	11	5	11	6
× 8	× 10	× 11	× 11	× 11	× 11	× 3	× 11	× 2	× 11

Multiplying By 12 (A)

Find each product.

12	12	12	12	10	12	12	12	8	12
× 9	× 11	× 12	× 2	× 12	× 1	× 5	× 3	× 12	× 4

12	12	8	9	12	7	12	6	5	12
$\times 10$	$\times 12$	$\times 12$	$\times 12$	$\times 3$	$\times 12$	$\times 1$	$\times 12$	$\times 12$	$\times 11$

12	12	6	5	12	9	12	10	12	11
× 8	× 7	× 12	× 12	× 12	× 12	× 3	× 12	× 1	× 12

2	1	4	8	9	12	5	12	12	12
$\times 12$	$\times 12$	$\times 12$	$\times 12$	$\times 12$	$\times 6$	$\times 12$	$\times 3$	$\times 7$	$\times 10$

12	12	12	5	12	8	12	12	2	12
× 1	× 6	× 7	× 12	× 4	× 12	× 10	× 9	× 12	× 3

8	12	4	10	9	7	2	11	12	12
$\times 12$	$\times 12$	$\times 12$	$\times 12$	$\times 12$	$\times 12$	$\times 12$	$\times 12$	$\times 3$	$\times 1$

12	12	12	12	12	12	12	2	8	1
× 9	× 4	× 12	× 5	× 10	× 7	× 3	× 12	× 12	× 12

4	11	12	12	3	12	1	12	2	7
$\times 12$	$\times 12$	$\times 12$	$\times 6$	$\times 12$	$\times 10$	$\times 12$	$\times 8$	$\times 12$	$\times 12$

12	2	10	12	12	8	12	12	12	12
× 11	× 12	× 12	× 4	× 9	× 12	× 6	× 7	× 1	× 12

12	11	5	8	7	4	12	12	3	12
$\times 12$	$\times 12$	$\times 12$	$\times 12$	$\times 12$	$\times 12$	$\times 6$	$\times 9$	$\times 12$	$\times 2$

0	1	2	3	4	5	6	7	8	9	10	11	12
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												