

Name _____ Date _____

Multiplication with 5s and 10s

Complete the number sentences. Use tools like *Centimeter Grid Paper*, a *200 Chart*, square-inch tiles, counters, drawings, number lines, your multiplication table, and *My Patterns for Remembering the Facts* chart. Be ready to explain your reasoning.

- A. $5 \times 4 = 4 \times \square$ B. $5 \times 4 = \square$
- A. $\square \times 7 = 7 \times 10$ B. $7 \times 10 = \square$
- A. $5 \times \square = 5$ B. $\square \times 10 = 10$
- A. $5 \times \square = 0$ B. $0 \times \square = 0$
- A. $4 \times 5 = 2 \times \square$ B. $4 \times 5 = \square$
- A. $6 \times 5 = 3 \times \square$ B. $6 \times 5 = \square$
- A. $3 \times 10 = \square \times 5$ B. $3 \times 10 = \square$
- A. $8 \times 5 = \square \times 10$ B. $8 \times 5 = \square$
- A. $7 \times 5 = 6 \times 5 + \square$ B. $7 \times 5 = \square$
- A. $9 \times 5 = 10 \times \square - 5$ B. $9 \times 5 = \square$

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11. Tell whether each of the number sentences is true or false.

	True	False
A. $7 \times 5 = 5 \times 7$		
B. $5 \times 9 = 5 \times 8 + 5$		
C. $10 \times 2 = 5 \times 3$		
D. $0 \times 5 = 0 \times 10$		

E. Rewrite part of the false number sentence to make it true.

Check-In: Questions 12-15

12. Show or tell how you solved Question 3A.

13. Show or tell how you solved Question 4A.

14. Choose another problem in the B column. Use another strategy or a pattern to check your answer. Show or tell what you did. Write the number sentence.

15. How can Question 10A help you solve Question 10B?

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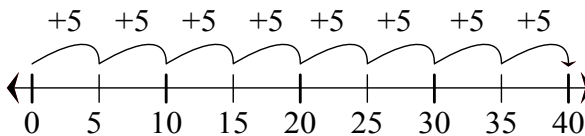
**Multiplication with 5s and 10s
(SAB pp. 299–300)**

Questions 1–15

- A.*5 B.* 20
- A. 10 B. 70
- A. 1 B. 1
- A. 0 B.* Any number
- A. 10 B. 20
- A. 10 B. 30
- A. 6 B. 30
- A.*4 B. 40
- A.*5 B. 35
- A. 5 B. 45
- A. True
B. True
C. False
D. True
E.*Answers may vary.

Possible responses: $10 \times 2 = 5 \times 4$ or $10 \times 1 = 5 \times 2$.

- Answers will vary. Possible response: $1 + 1 + 1 + 1 + 1 = 5$. Another response: Any number times one gives the same number.
- Possible response: I know any number times 0 is 0.
- Answers will vary. Possible response: For 8B, I used a number line to check. Eight + 5 hops land on 40. $8 \times 5 = 40$.



- Answers will vary. Possible response: If ten fives equal 50 and nine is one less than ten, then nine fives equal $50 - 5 = 45$.

*Answers and/or discussion are included in the lesson.

Answer Key • Lesson 8: Multiplication Number Sentences

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Function Machines

Read each Function Machine's rule and then complete the tables.

1. Rule: Multiply by 5

Input	Output	Number Sentence
8		
3		
6		
9		

2. Rule: Multiply by 5

Input	Output	Number Sentence
	25	
	20	
	50	
	35	

3. Rule: Multiply by 10

Input	Output	Number Sentence
3		
0		
	10	
	70	

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4. Rule: Multiply by 10

Input	Output	Number Sentence
	20	
9		
8		
	40	

5. Rule: Divide by 2

Input	Output	Number Sentence
10		
16		
24		
18		

6. Rule: Multiply by 0

Input	Output	Number Sentence
9		
0		
10		
100		

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Function Machines (SAB pp. 305–306) Questions 1–6

1. Rule: Multiply by 5

Input	Output	Number Sentence
8	40	$8 \times 5 = 40$
3	15	$3 \times 5 = 15$
6	30	$6 \times 5 = 30$
9	45	$9 \times 5 = 45$

2. Rule: Multiply by 5

Input	Output	Number Sentence
5	25	$5 \times 5 = 25$
4	20	$4 \times 5 = 20$
10	50	$10 \times 5 = 50$
7	35	$7 \times 5 = 35$

3. Rule: Multiply by 10

Input	Output	Number Sentence
3	30	$3 \times 10 = 30$
0	0	$0 \times 10 = 0$
1	10	$1 \times 10 = 10$
7	70	$7 \times 10 = 70$

4. Rule: Multiply by 10

Input	Output	Number Sentence
2	20	$2 \times 10 = 20$
9	90	$9 \times 10 = 90$
8	80	$8 \times 10 = 80$
4	40	$4 \times 10 = 40$

5. Rule: Divide by 2

Input	Output	Number Sentence
10	5	$10 \div 2 = 5$
16	8	$16 \div 2 = 8$
24	12	$24 \div 2 = 12$
18	9	$18 \div 2 = 9$

- 6.* Rule: Multiply by 0

Input	Output	Number Sentence
9	0	$9 \times 0 = 0$
0	0	$0 \times 0 = 0$
10	0	$10 \times 0 = 0$
100	0	$100 \times 0 = 0$

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*Answers and/or discussion are included in the lesson.