Algebra I Lesson #1 Unit 1

Class Worksheet #1

For Worksheets 1 & 3

Algebra I Unit 1 Parentheses, Order of Operation

Order of Operations

Order of Operations

If there are no parentheses then do the operations in the following order.

Order of Operations

If there are no parentheses then do the operations in the following order.

1. Evaluate all powers and roots (left to right).

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

1. $9 - 2 \cdot 3 =$ ____

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

1. $9 - 2 \cdot 3 =$ ____

Do the multiplication first.

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

1. $9 - 2 \cdot 3 =$ ____

Do the multiplication first.

$9 - 6$

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

1. $9 - 2 \cdot 3 = \underline{\quad 3 \quad}$

Do the multiplication first.

$9 - 6$

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

2. $12 \div 2 \cdot 8 =$ ____

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

2. $12 \div 2 \cdot 8 =$ ____

Do the division first.

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

2. $12 \div 2 \cdot 8 =$ ____

Do the division first.

$6 \cdot 8$

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

2. $12 \div 2 \cdot 8 = \underline{48}$

Do the division first.

$6 \cdot 8$

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

3. $16 + 6 \div 2 =$ ____

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

3. $16 + 6 \div 2 =$ ____

Do the division first.

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

3. $16 + 6 \div 2 =$ ____

$16 + 3$ ← **Do the division first.**

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

3. $16 + 6 \div 2 =$ 19

$16 + 3$ ← Do the division first.

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

4. $24 - 10 + 6 =$ ____

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

4. $24 - 10 + 6 =$ ____

Do the subtraction first.

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

4. $24 - 10 + 6 =$ ____

Do the subtraction first.

$14 + 6$

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

4. $24 - 10 + 6 =$ **20**

Do the subtraction first.

$14 + 6$

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

5. $24 \div 6 \div 2 =$ ____

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

5. $24 \div 6 \div 2 =$ ____

Do this division first.

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

5. $24 \div 6 \div 2 =$ ____

Do this division first.

$4 \div 2$

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

5. $24 \div 6 \div 2 =$ 2

Do this division first.

$4 \div 2$

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

6. $20 - 12 \div 3 =$ ____

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

6. $20 - 12 \div 3 =$ ____

Do the division first.

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

6. $20 - 12 \div 3 =$ ____

$20 - 4$  **Do the division first.**

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

6. $20 - 12 \div 3 = \underline{16}$

$20 - 4$ ← **Do the division first.**

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

7. $13 - 6 - 2 =$ ____

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

7. $13 - 6 - 2 =$ ____

Do this subtraction first.

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

7. $13 - 6 - 2 =$ ____

Do this subtraction first.

$7 - 2$

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

7. $13 - 6 - 2 =$ 5

Do this subtraction first.

$7 - 2$

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

8. $6 + 3 \cdot 4 + 5 =$ ____

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

8. $6 + 3 \cdot 4 + 5 =$ ____

Do the multiplication first.

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

8. $6 + 3 \cdot 4 + 5 =$ ____

Do the multiplication first.

$6 + 12 + 5$

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

8. $6 + 3 \cdot 4 + 5 =$ ____

Do the multiplication first.

$6 + 12 + 5$

Do this addition next.

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

8. $6 + 3 \cdot 4 + 5 =$ ____

Do the multiplication first.

$6 + 12 + 5$

Do this addition next.

$18 + 5$

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

8. $6 + 3 \cdot 4 + 5 =$ **23**

Do the multiplication first.

$6 + 12 + 5$

Do this addition next.

$18 + 5$

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

9. $5 \cdot 6 - 4 \div 2 =$ ____

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

9. $5 \cdot 6 - 4 \div 2 =$ ____

Do the multiplication first.

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

9. $5 \cdot 6 - 4 \div 2 =$ ____

Do the multiplication first.

$30 - 4 \div 2$

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

9. $5 \cdot 6 - 4 \div 2 =$ ____

Do the multiplication first.

$30 - 4 \div 2$

Do the division next.

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

9. $5 \cdot 6 - 4 \div 2 =$ ____

Do the multiplication first.

$30 - 4 \div 2$

Do the division next.

$30 - 2$

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

9. $5 \cdot 6 - 4 \div 2 = \underline{28}$

Do the multiplication first.

$30 - 4 \div 2$

Do the division next.

$30 - 2$

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

10. $6 + 24 \div 3 \cdot 4 =$ ____

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

10. $6 + 24 \div 3 \cdot 4 =$ ____

Do the division first.

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

10. $6 + 24 \div 3 \cdot 4 =$ ____

Do the division first.

$6 + 8 \cdot 4$

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

10. $6 + 24 \div 3 \cdot 4 =$ ____

Do the division first.

$6 + 8 \cdot 4$

Do the multiplication next.

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

10. $6 + 24 \div 3 \cdot 4 =$ ____

Do the division first.

$6 + 8 \cdot 4$

Do the multiplication next.

$6 + 32$

Order of Operations

If there are no parentheses then do the operations in the following order.

1. **Evaluate all powers and roots (left to right).**
2. **Do all multiplication and division (left to right).**
3. **Do all addition and subtraction (left to right).**

Evaluate each of the following arithmetic expressions.

10. $6 + 24 \div 3 \cdot 4 =$ **38**

Do the division first.

$6 + 8 \cdot 4$

Do the multiplication next.

$6 + 32$

Order of Operations

Order of Operations

If there are parentheses,

Algebra I Unit 1 Parentheses, Order of Operation

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Algebra I Unit 1 Parentheses, Order of Operation

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

11. $(5 + 7) \cdot 2 =$ ____

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

11. $(5 + 7) \cdot 2 =$ ____

Do the addition first.

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

11. $(5 + 7) \cdot 2 =$ ____

Do the addition first.

$12 \cdot 2$

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

11. $(5 + 7) \cdot 2 = \underline{24}$

Do the addition first.

$12 \cdot 2$

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

12. $12 \div (4 - 2) =$ ____

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

12. $12 \div (4 - 2) =$ ____

Do the subtraction first.

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

12. $12 \div (4 - 2) =$ ____

Do the subtraction first.

$12 \div 2$

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

12. $12 \div (4 - 2) = \underline{\quad 6 \quad}$

Do the subtraction first.

$12 \div 2$

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

13. $18 - (2 + 12) =$ ____

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

13. $18 - (2 + 12) =$ ____

Do the addition first.

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

13. $18 - (2 + 12) =$ ____

Do the addition first.

$18 - 14$

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

13. $18 - (2 + 12) =$ 4

Do the addition first.

$18 - 14$

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

14. $(3 + 4) \cdot (2 + 6) =$ ____

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

14. $(3 + 4) \cdot (2 + 6) =$ ____

Do this addition first.

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

14. $(3 + 4) \cdot (2 + 6) =$ ____

Do this addition first.

$7 \cdot (2 + 6)$

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

14. $(3 + 4) \cdot (2 + 6) =$ ____

Do this addition first.

$7 \cdot (2 + 6)$

Do this addition next.

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

14. $(3 + 4) \cdot (2 + 6) =$ ____

Do this addition first.

$7 \cdot (2 + 6)$

Do this addition next.

$7 \cdot 8$

Order of Operations

If there are parentheses, then do the operations in the parentheses first.

Evaluate each of the following arithmetic expressions.

14. $(3 + 4) \cdot (2 + 6) = \underline{56}$

Do this addition first.

$7 \cdot (2 + 6)$

Do this addition next.

$7 \cdot 8$

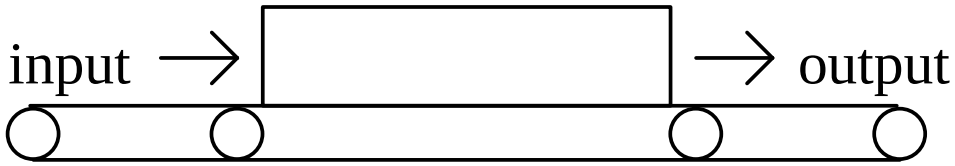
Algebra I Unit 1 Variables and Algebraic Expressions

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts

Algebra I Unit 1 Variables and Algebraic Expressions

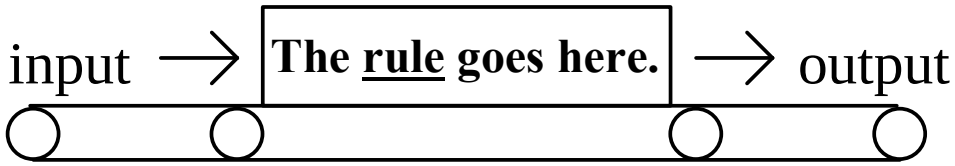
Input-Output Charts



input	output

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts



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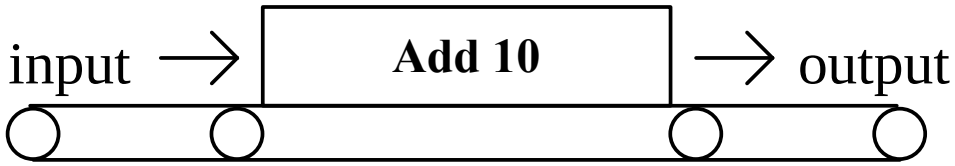
Algebra I Unit 1 Variables and Algebraic Expressions

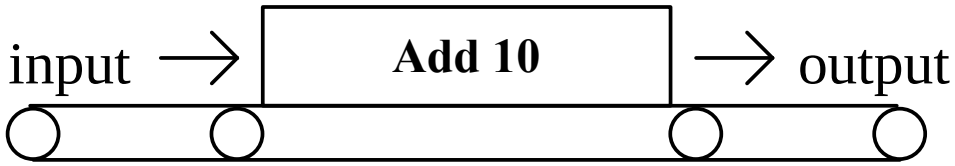
Input-Output Charts



	input	output
15.		
16.		
17.		
18.		
19.		

Algebra I Unit 1 Variables and Algebraic Expressions

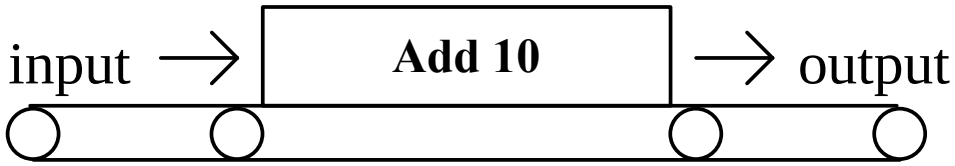
Input-Output Charts



	input	output
15.	**5**	
16.		
17.		
18.		
19.		

Algebra I Unit 1 Variables and Algebraic Expressions

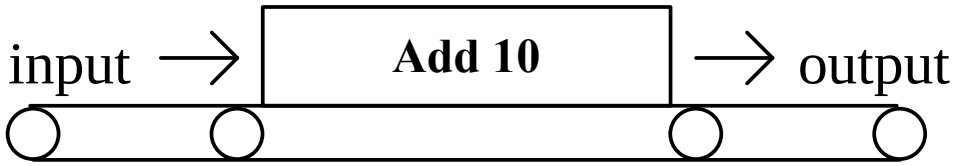
Input-Output Charts



	input	output
15.	**5**	**15**
16.		
17.		
18.		
19.		

Algebra I Unit 1 Variables and Algebraic Expressions

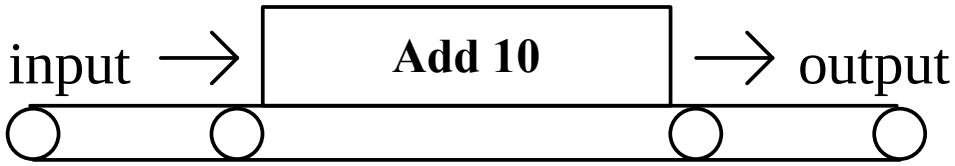
Input-Output Charts



	input	output
15.	**5**	**15**
16.	**2**	
17.		
18.		
19.		

Algebra I Unit 1 Variables and Algebraic Expressions

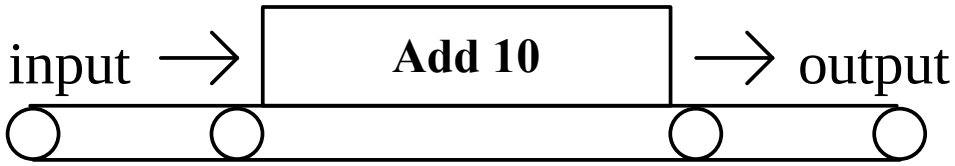
Input-Output Charts



	input	output
15.	**5**	**15**
16.	**2**	**12**
17.		
18.		
19.		

Algebra I Unit 1 Variables and Algebraic Expressions

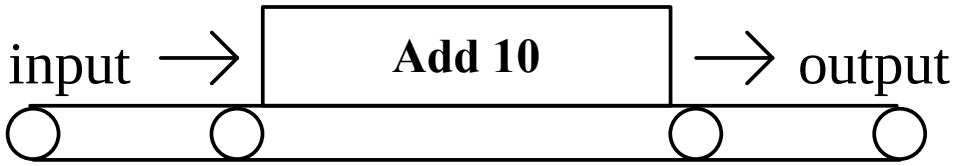
Input-Output Charts



	input	output
15.	**5**	**15**
16.	**2**	**12**
17.	**47**	
18.		
19.		

Algebra I Unit 1 Variables and Algebraic Expressions

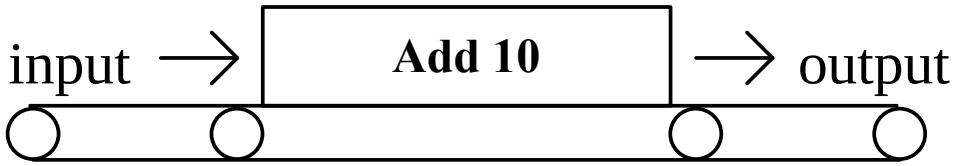
Input-Output Charts



	input	output
15.	**5**	**15**
16.	**2**	**12**
17.	**47**	**57**
18.		
19.		

Algebra I Unit 1 Variables and Algebraic Expressions

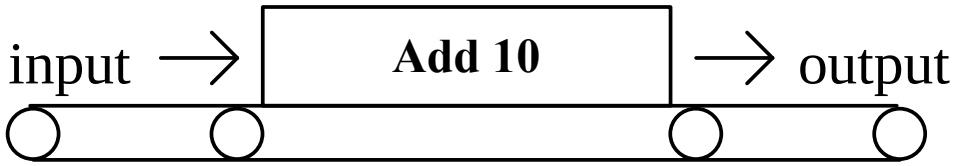
Input-Output Charts



	input	output
15.	**5**	**15**
16.	**2**	**12**
17.	**47**	**57**
18.	**93**	
19.		

Algebra I Unit 1 Variables and Algebraic Expressions

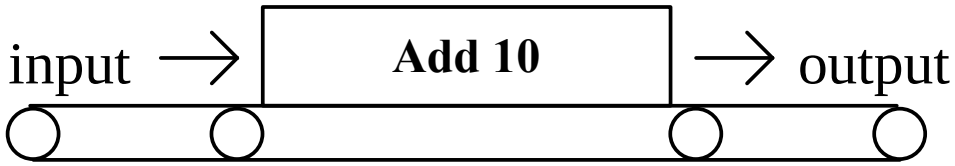
Input-Output Charts



	input	output
15.	**5**	**15**
16.	**2**	**12**
17.	**47**	**57**
18.	**93**	**103**
19.		

Algebra I Unit 1 Variables and Algebraic Expressions

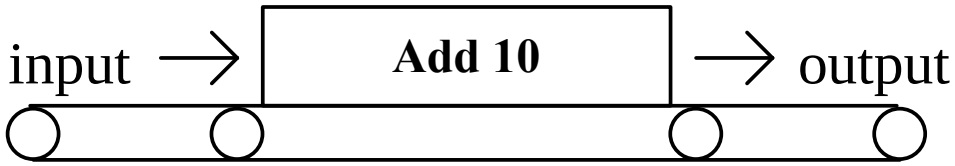
Input-Output Charts



	input	output
15.	**5**	**15**
16.	**2**	**12**
17.	**47**	**57**
18.	**93**	**103**
19.	**x**	

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts

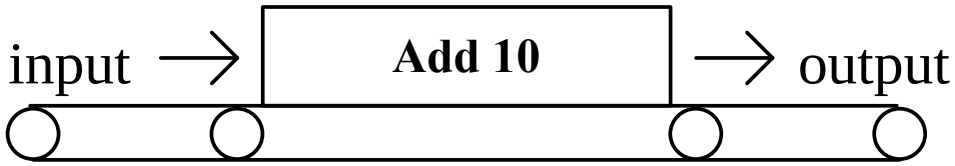


	input	output
15.	5	15
16.	2	12
17.	47	57
18.	93	103
19.	x	

variable

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts



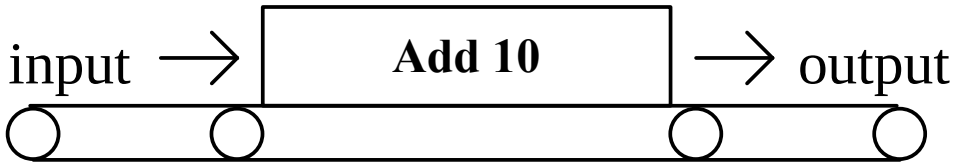
	input	output
15.	5	15
16.	2	12
17.	47	57
18.	93	103
19.	x	

variable

A letter that is used to represent a number is called a <u>variable</u>.

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts



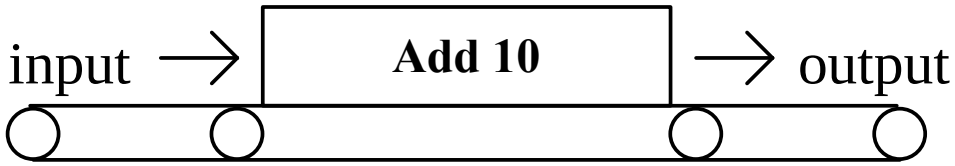
	input	output
15.	5	15
16.	2	12
17.	47	57
18.	93	103
19.	x	x + 10

variable

A letter that is used to represent a number is called a <u>variable</u>.

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts



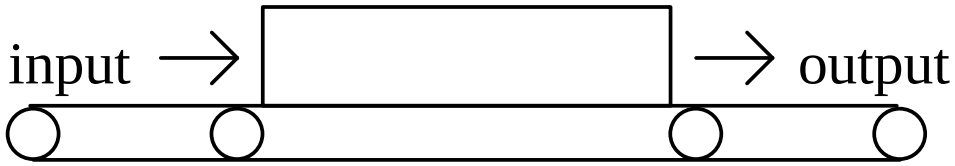
	input	output
15.	5	15
16.	2	12
17.	47	57
18.	93	103
19.	x	x + 10

variable **algebraic expression**

A letter that is used to represent a number is called a <u>variable</u>.

Algebra I Unit 1 Variables and Algebraic Expressions

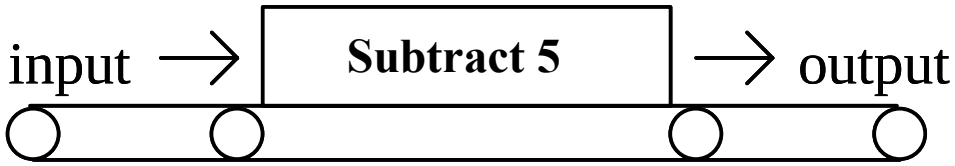
Input-Output Charts



input	output

Algebra I Unit 1 Variables and Algebraic Expressions

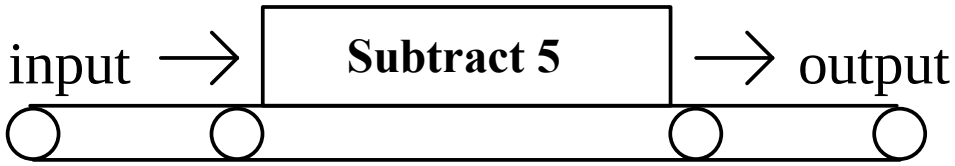
Input-Output Charts



	input	output
20.		
21.		
22.		
23.		
24.		

Algebra I Unit 1 Variables and Algebraic Expressions

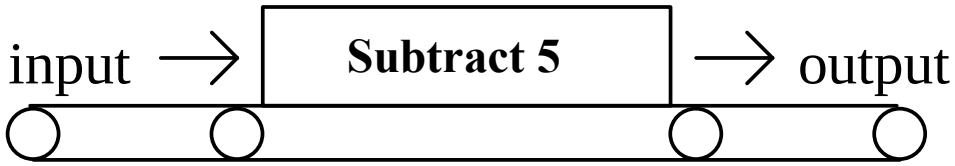
Input-Output Charts



	input	output
20.	**8**	
21.		
22.		
23.		
24.		

Algebra I Unit 1 Variables and Algebraic Expressions

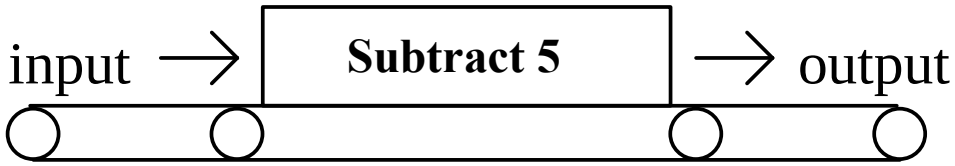
Input-Output Charts



	input	output
20.	**8**	**3**
21.		
22.		
23.		
24.		

Algebra I Unit 1 Variables and Algebraic Expressions

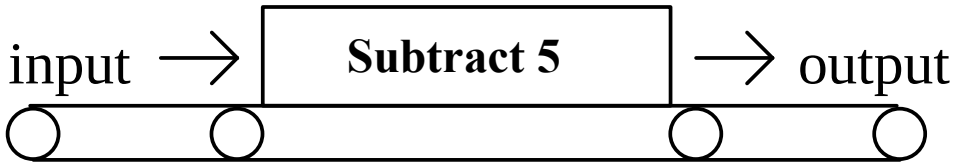
Input-Output Charts



	input	output
20.	**8**	**3**
21.	**12**	
22.		
23.		
24.		

Algebra I Unit 1 Variables and Algebraic Expressions

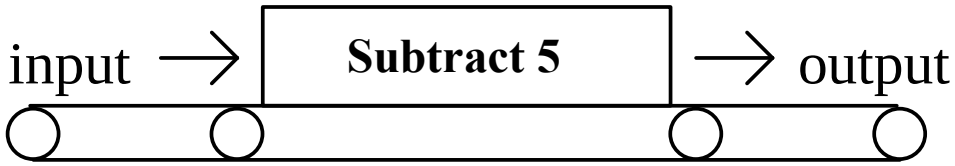
Input-Output Charts



	input	output
20.	**8**	**3**
21.	**12**	**7**
22.		
23.		
24.		

Algebra I Unit 1 Variables and Algebraic Expressions

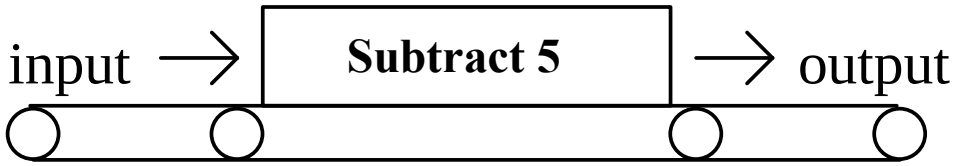
Input-Output Charts



	input	output
20.	**8**	**3**
21.	**12**	**7**
22.	**29**	
23.		
24.		

Algebra I Unit 1 Variables and Algebraic Expressions

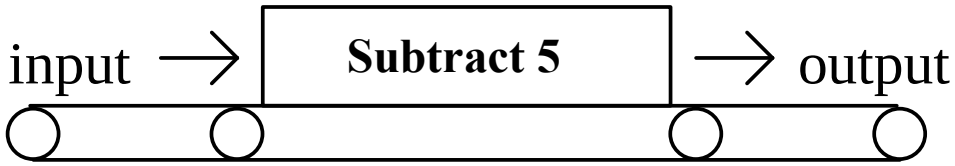
Input-Output Charts



	input	output
20.	**8**	**3**
21.	**12**	**7**
22.	**29**	**24**
23.		
24.		

Algebra I Unit 1 Variables and Algebraic Expressions

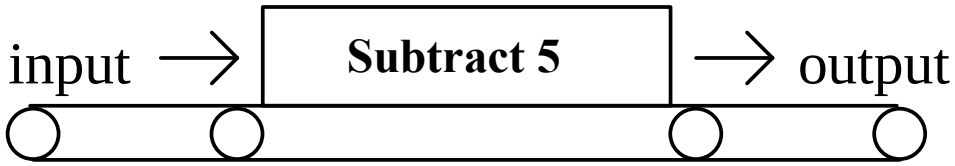
Input-Output Charts



	input	output
20.	**8**	**3**
21.	**12**	**7**
22.	**29**	**24**
23.	**101**	
24.		

Algebra I Unit 1 Variables and Algebraic Expressions

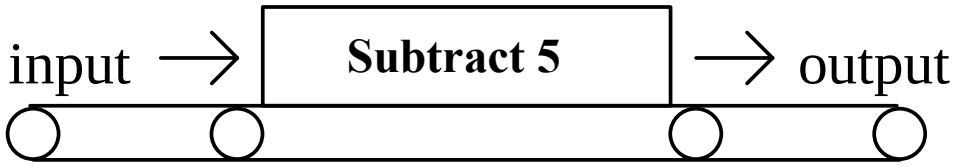
Input-Output Charts



	input	output
20.	**8**	**3**
21.	**12**	**7**
22.	**29**	**24**
23.	**101**	**96**
24.		

Algebra I Unit 1 Variables and Algebraic Expressions

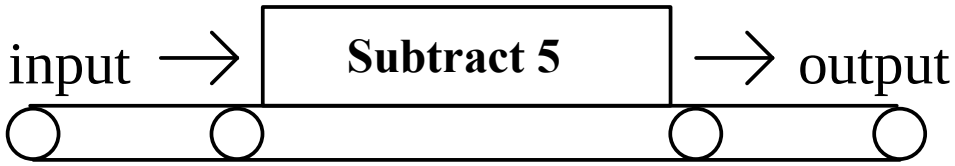
Input-Output Charts



	input	output
20.	**8**	**3**
21.	**12**	**7**
22.	**29**	**24**
23.	**101**	**96**
24.	**y**	

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts

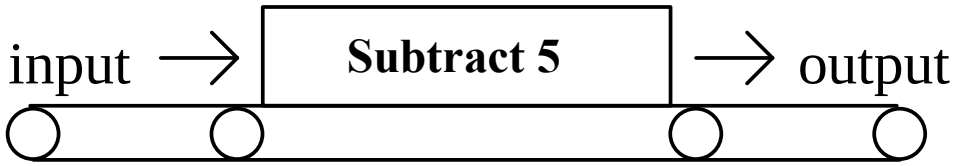


	input	output
20.	**8**	**3**
21.	**12**	**7**
22.	**29**	**24**
23.	**101**	**96**
24.	**y**	

variable

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts

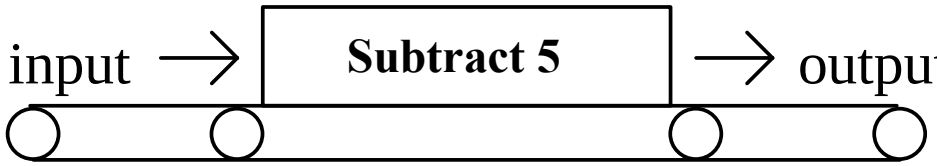


	input	output
20.	**8**	**3**
21.	**12**	**7**
22.	**29**	**24**
23.	**101**	**96**
24.	**y**	**y – 5**

variable

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts

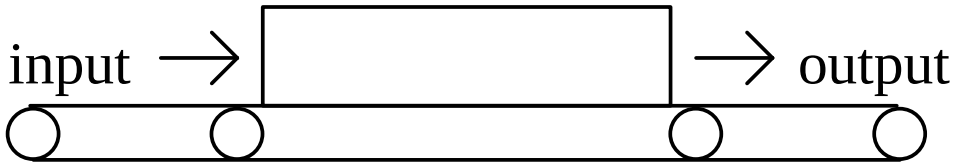


	input	output
20.	8	3
21.	12	7
22.	29	24
23.	101	96
24.	y	y – 5

variable **algebraic expression**

Algebra I Unit 1 Variables and Algebraic Expressions

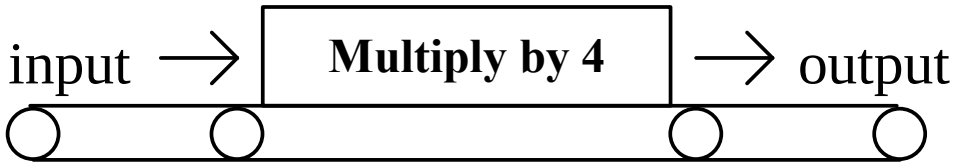
Input-Output Charts



input	output

Algebra I Unit 1 Variables and Algebraic Expressions

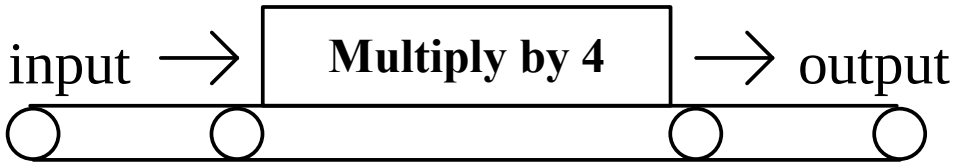
Input-Output Charts



	input	output
25.		
26.		
27.		
28.		
29.		

Algebra I Unit 1 Variables and Algebraic Expressions

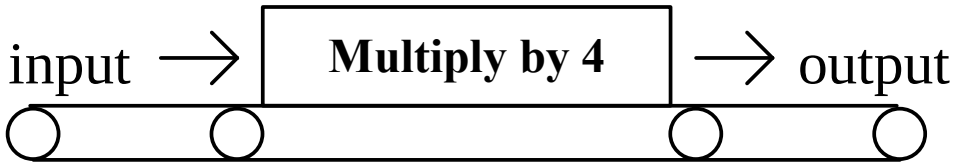
Input-Output Charts



	input	output
25.	**3**	
26.		
27.		
28.		
29.		

Algebra I Unit 1 Variables and Algebraic Expressions

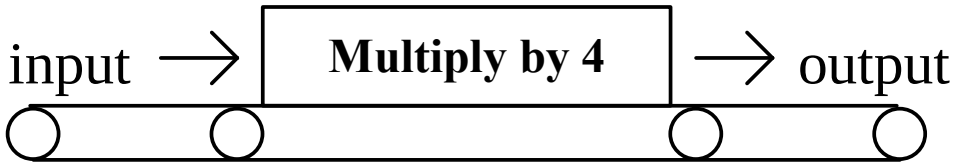
Input-Output Charts



	input	output
25.	**3**	**12**
26.		
27.		
28.		
29.		

Algebra I Unit 1 Variables and Algebraic Expressions

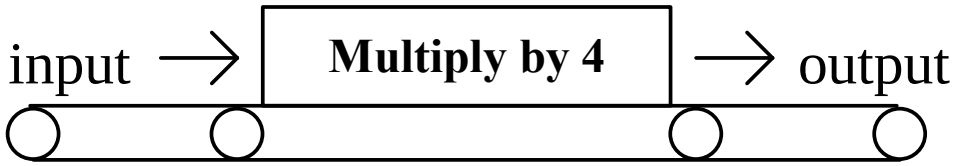
Input-Output Charts



	input	output
25.	**3**	**12**
26.	**7**	
27.		
28.		
29.		

Algebra I Unit 1 Variables and Algebraic Expressions

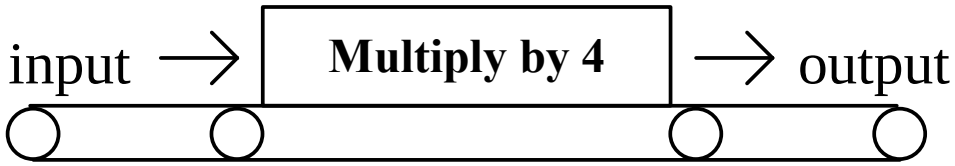
Input-Output Charts



	input	output
25.	**3**	**12**
26.	**7**	**28**
27.		
28.		
29.		

Algebra I Unit 1 Variables and Algebraic Expressions

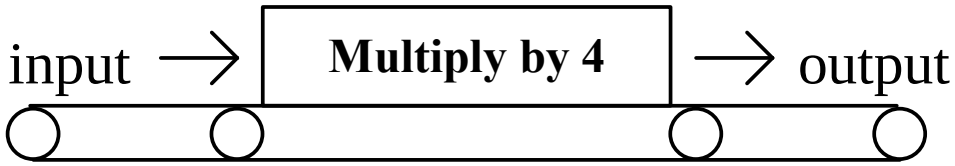
Input-Output Charts



	input	output
25.	**3**	**12**
26.	**7**	**28**
27.	**11**	
28.		
29.		

Algebra I Unit 1 Variables and Algebraic Expressions

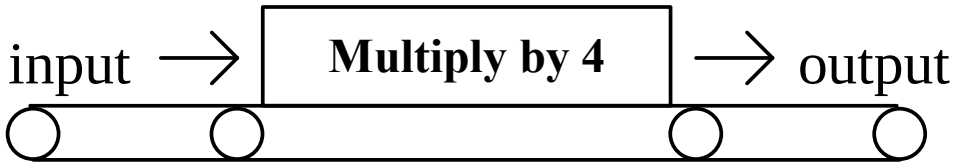
Input-Output Charts



	input	output
25.	**3**	**12**
26.	**7**	**28**
27.	**11**	**44**
28.		
29.		

Algebra I Unit 1 Variables and Algebraic Expressions

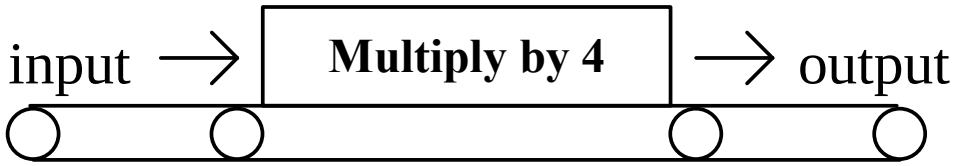
Input-Output Charts



	input	output
25.	**3**	**12**
26.	**7**	**28**
27.	**11**	**44**
28.	**25**	
29.		

Algebra I Unit 1 Variables and Algebraic Expressions

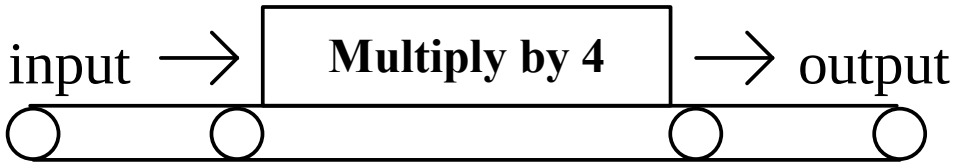
Input-Output Charts



	input	output
25.	**3**	**12**
26.	**7**	**28**
27.	**11**	**44**
28.	**25**	**100**
29.		

Algebra I Unit 1 Variables and Algebraic Expressions

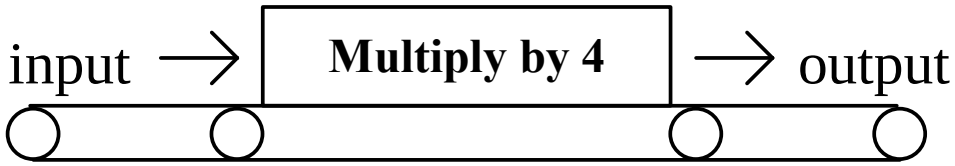
Input-Output Charts



	input	output
25.	**3**	**12**
26.	**7**	**28**
27.	**11**	**44**
28.	**25**	**100**
29.	**n**	

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts

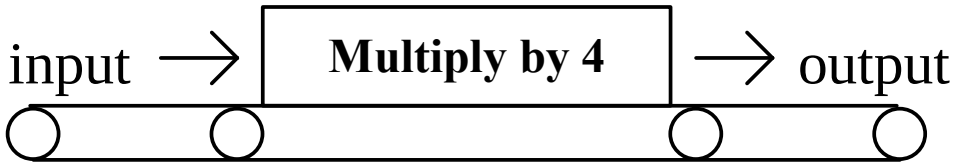


	input	output
25.	**3**	**12**
26.	**7**	**28**
27.	**11**	**44**
28.	**25**	**100**
29.	**n**	

variable

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts

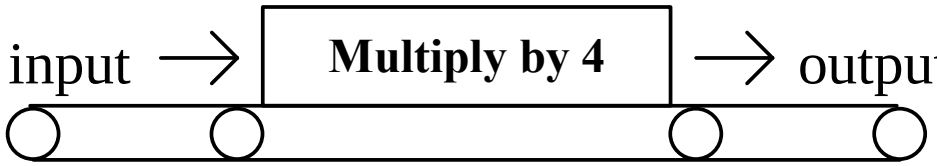


	input	output
25.	**3**	**12**
26.	**7**	**28**
27.	**11**	**44**
28.	**25**	**100**
29.	**n**	**4n**

variable

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts

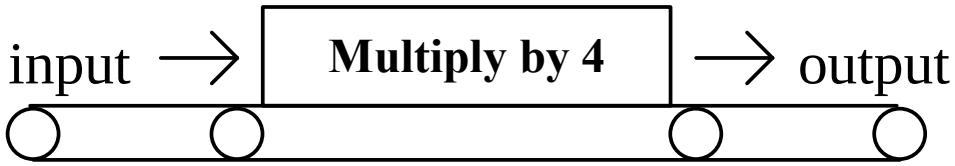


	input	output
25.	3	12
26.	7	28
27.	11	44
28.	25	100
29.	n	4n

variable **algebraic expression**

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts

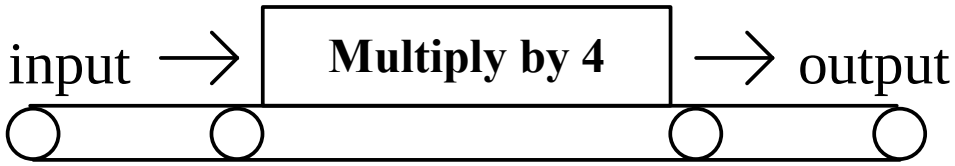


	input	output
25.	**3**	**12**
26.	**7**	**28**
27.	**11**	**44**
28.	**25**	**100**
29.	**n**	**4n**

In arithmetic, multiplication is indicated using an $\times$.

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts



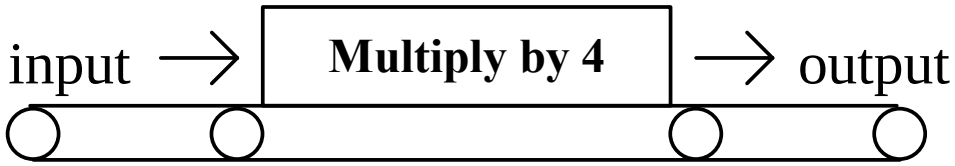
	input	output
25.	**3**	**12**
26.	**7**	**28**
27.	**11**	**44**
28.	**25**	**100**
29.	**n**	**4n**

In arithmetic, multiplication is indicated using an $\times$.

4×3

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts



	input	output
25.	**3**	**12**
26.	**7**	**28**
27.	**11**	**44**
28.	**25**	**100**
29.	**n**	**4n**

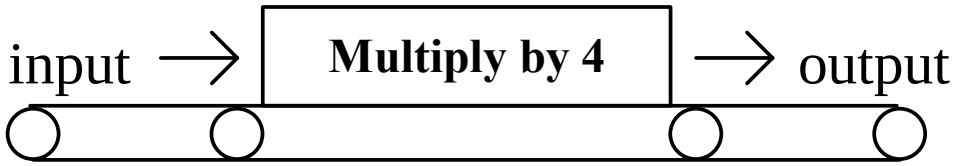
In arithmetic, multiplication is indicated using an $\times$.

$$4 \times 3$$

Multiplication can also be indicated using a raised dot $\cdot$.

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts



	input	output
25.	**3**	**12**
26.	**7**	**28**
27.	**11**	**44**
28.	**25**	**100**
29.	**n**	**4n**

In arithmetic, multiplication is indicated using an $\times$.

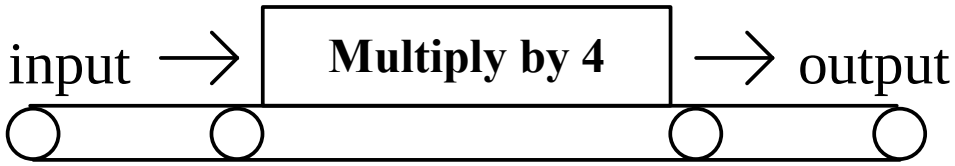
$$4 \times 3$$

Multiplication can also be indicated using a raised dot $\cdot$.

$$4 \cdot 3$$

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts



	input	output
25.	3	12
26.	7	28
27.	11	44
28.	25	100
29.	n	4n

In arithmetic, multiplication is indicated using an ×.

$$4 \times 3$$

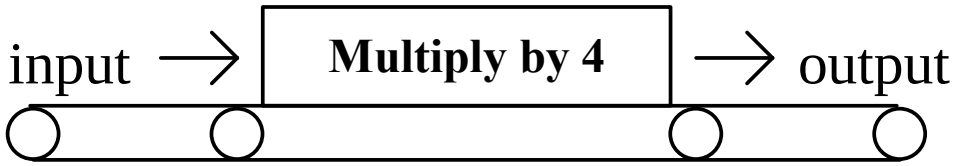
Multiplication can also be indicated using a raised dot ·.

$$4 \cdot 3$$

The × symbol should not be used to show multiplication in algebra.

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts



	input	output
25.	3	12
26.	7	28
27.	11	44
28.	25	100
29.	n	4n

In arithmetic, multiplication is indicated using an $\times$.

$$4 \times 3$$

Multiplication can also be indicated using a raised dot $\cdot$.

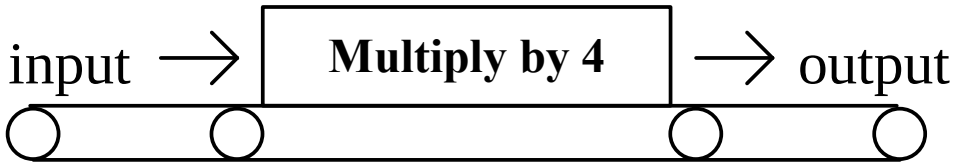
$$4 \cdot 3$$

The $\times$ symbol should not be used to show multiplication in algebra.

If a variable is involved, then no symbol is needed.

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts



	input	output
25.	3	12
26.	7	28
27.	11	44
28.	25	100
29.	n	4n

In arithmetic, multiplication is indicated using an ×.

$$4 \times 3$$

Multiplication can also be indicated using a raised dot ·.

$$4 \cdot 3$$

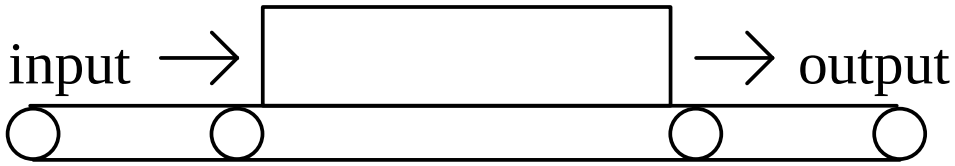
The × symbol should not be used to show multiplication in algebra.

If a variable is involved, then no symbol is needed.

4n means 4 · n.

Algebra I Unit 1 Variables and Algebraic Expressions

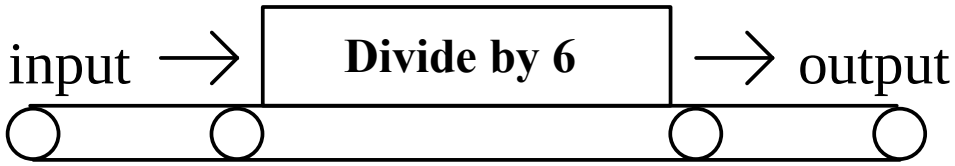
Input-Output Charts



input	output

Algebra I Unit 1 Variables and Algebraic Expressions

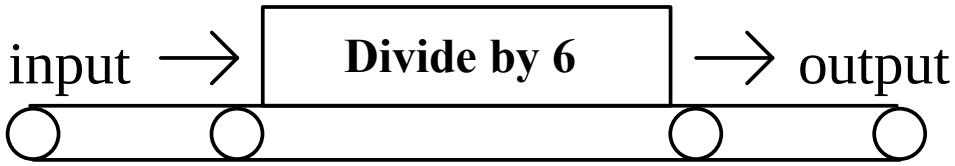
Input-Output Charts



	input	output
30.		
31.		
32.		
33.		
34.		

Algebra I Unit 1 Variables and Algebraic Expressions

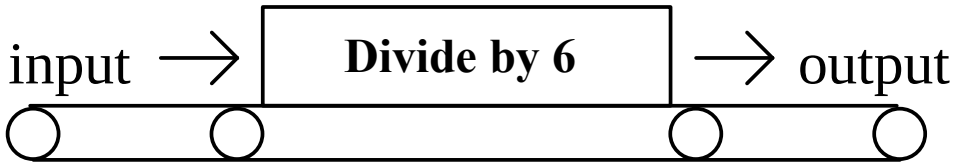
Input-Output Charts



	input	output
30.	**18**	
31.		
32.		
33.		
34.		

Algebra I Unit 1 Variables and Algebraic Expressions

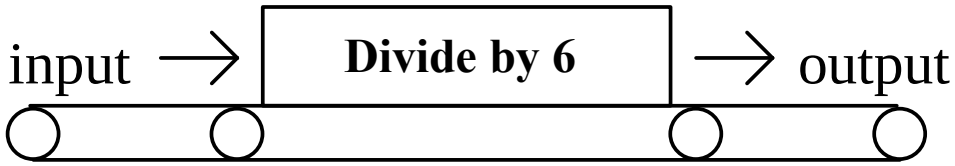
Input-Output Charts



	input	output
30.	**18**	**3**
31.		
32.		
33.		
34.		

Algebra I Unit 1 Variables and Algebraic Expressions

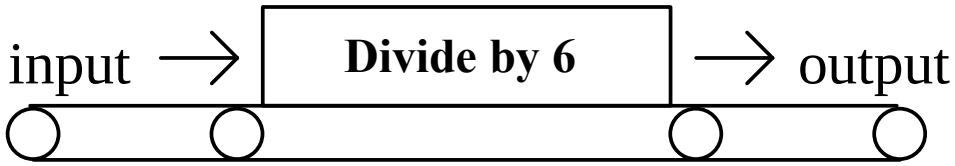
Input-Output Charts



	input	output
30.	**18**	**3**
31.	**30**	
32.		
33.		
34.		

Algebra I Unit 1 Variables and Algebraic Expressions

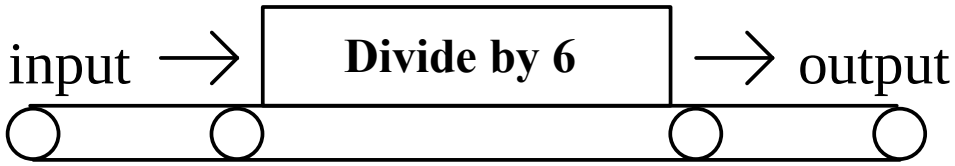
Input-Output Charts



	input	output
30.	**18**	**3**
31.	**30**	**5**
32.		
33.		
34.		

Algebra I Unit 1 Variables and Algebraic Expressions

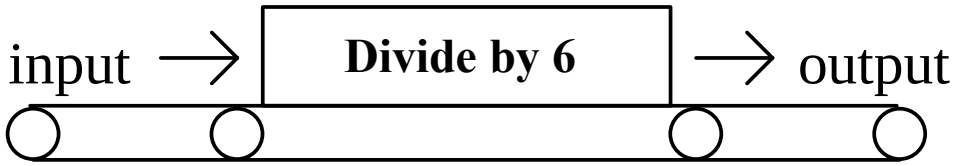
Input-Output Charts



	input	output
30.	**18**	**3**
31.	**30**	**5**
32.	**54**	
33.		
34.		

Algebra I Unit 1 Variables and Algebraic Expressions

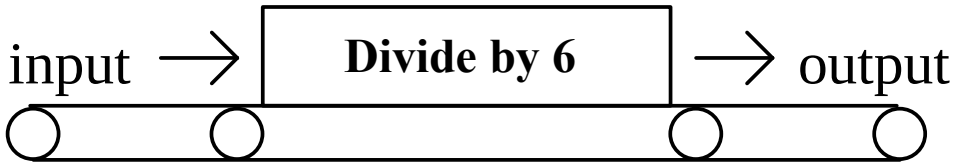
Input-Output Charts



	input	output
30.	**18**	**3**
31.	**30**	**5**
32.	**54**	**9**
33.		
34.		

Algebra I Unit 1 Variables and Algebraic Expressions

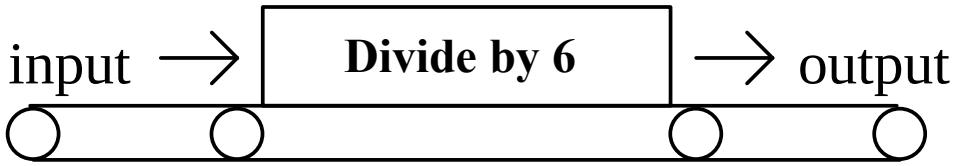
Input-Output Charts



	input	output
30.	**18**	**3**
31.	**30**	**5**
32.	**54**	**9**
33.	**240**	
34.		

Algebra I Unit 1 Variables and Algebraic Expressions

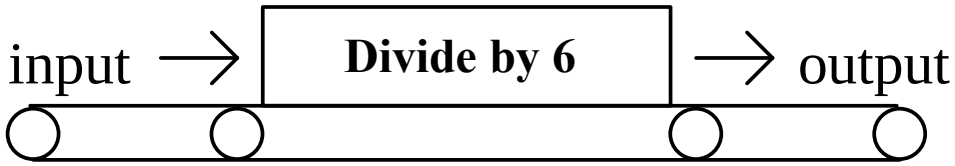
Input-Output Charts



	input	output
30.	**18**	**3**
31.	**30**	**5**
32.	**54**	**9**
33.	**240**	**40**
34.		

Algebra I Unit 1 Variables and Algebraic Expressions

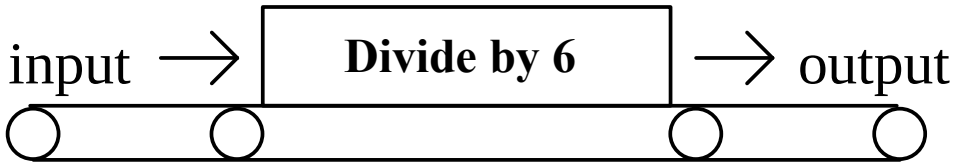
Input-Output Charts



	input	output
30.	**18**	**3**
31.	**30**	**5**
32.	**54**	**9**
33.	**240**	**40**
34.	**x**	

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts

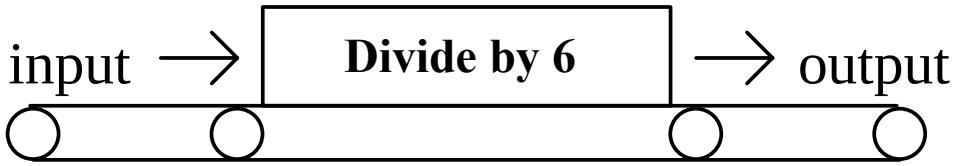


	input	output
30.	18	3
31.	30	5
32.	54	9
33.	240	40
34.	x	

variable

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts

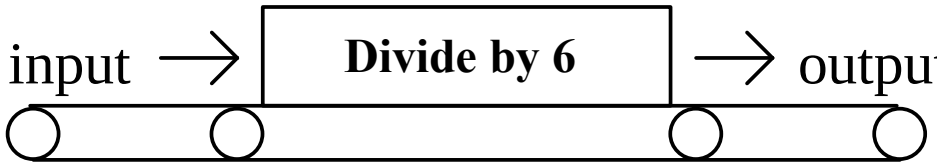


	input	output
30.	18	3
31.	30	5
32.	54	9
33.	240	40
34.	x	$\frac{x}{6}$

variable

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts



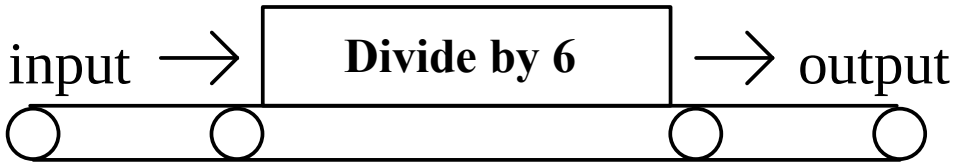
	input	output
30.	18	3
31.	30	5
32.	54	9
33.	240	40
34.	x	$\frac{x}{6}$

variable

algebraic expression

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts



	input	output
30.	18	3
31.	30	5
32.	54	9
33.	240	40
34.	x	$\frac{x}{6}$

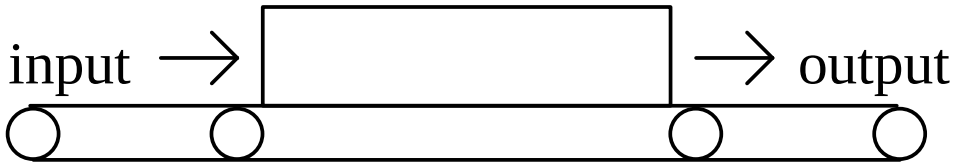
variable

algebraic expression

This can also be written x / 6 or x ÷ 6.

Algebra I Unit 1 Variables and Algebraic Expressions

Input-Output Charts



input	output

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 =$

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 =$

Step 1: Substitute

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate x + 4 , if x = 8.

$$x + 4 = 8 + 4$$

Step 1: Substitute

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$$x + 4 = 8 + 4$$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

Step 1: Substitute **Step 2: Evaluate**

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 =$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 =$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 = 8 - 4$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 = 8 - 4$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 = 8 - 4 = \underline{4}$.

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 = 8 - 4 = \underline{4}$.

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 = 8 - 4 = \underline{4}$.

37. Evaluate $4x$, if $x = 8$.

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 = 8 - 4 = \underline{4}$.

37. Evaluate $4x$, if $x = 8$.

$4x =$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 = 8 - 4 = \underline{4}$.

37. Evaluate $4x$, if $x = 8$.

$4x =$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 = 8 - 4 = \underline{4}$.

37. Evaluate $4x$, if $x = 8$.

$4x = 4 \cdot 8$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 = 8 - 4 = \underline{4}$.

37. Evaluate $4x$, if $x = 8$.

$4x = 4 \cdot 8$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 = 8 - 4 = \underline{4}$.

37. Evaluate $4x$, if $x = 8$.

$4x = 4 \cdot 8 = \underline{32}$.

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 = 8 - 4 = \underline{4}$.

37. Evaluate $4x$, if $x = 8$.

$4x = 4 \cdot 8 = \underline{32}$.

Step 1: Substitute **Step 2: Evaluate**

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 = 8 - 4 = \underline{4}$.

37. Evaluate $4x$, if $x = 8$.

$4x = 4 \cdot 8 = \underline{32}$.

38. Evaluate $x \div 4$, if $x = 8$.

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 = 8 - 4 = \underline{4}$.

37. Evaluate $4x$, if $x = 8$.

$4x = 4 \cdot 8 = \underline{32}$.

38. Evaluate $x \div 4$, if $x = 8$.

$x \div 4 =$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 = 8 - 4 = \underline{4}$.

37. Evaluate $4x$, if $x = 8$.

$4x = 4 \cdot 8 = \underline{32}$.

38. Evaluate $x \div 4$, if $x = 8$.

$x \div 4 =$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 = 8 - 4 = \underline{4}$.

37. Evaluate $4x$, if $x = 8$.

$4x = 4 \cdot 8 = \underline{32}$.

38. Evaluate $x \div 4$, if $x = 8$.

$x \div 4 = 8 \div 4$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 = 8 - 4 = \underline{4}$.

37. Evaluate $4x$, if $x = 8$.

$4x = 4 \cdot 8 = \underline{32}$.

38. Evaluate $x \div 4$, if $x = 8$.

$x \div 4 = 8 \div 4$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 = 8 - 4 = \underline{4}$.

37. Evaluate $4x$, if $x = 8$.

$4x = 4 \cdot 8 = \underline{32}$.

38. Evaluate $x \div 4$, if $x = 8$.

$x \div 4 = 8 \div 4 = \underline{2}$.

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

35. Evaluate $x + 4$, if $x = 8$.

$x + 4 = 8 + 4 = \underline{12}$.

36. Evaluate $x - 4$, if $x = 8$.

$x - 4 = 8 - 4 = \underline{4}$.

37. Evaluate $4x$, if $x = 8$.

$4x = 4 \cdot 8 = \underline{32}$.

38. Evaluate $x \div 4$, if $x = 8$.

$x \div 4 = 8 \div 4 = \underline{2}$.

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

39. Evaluate $2x + 7$, if $x = 3$.

Step 1: Substitute **Step 2: Evaluate**

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

39. Evaluate $2x + 7$, if $x = 3$.

$2x + 7 =$

Step 1: Substitute **Step 2: Evaluate**

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

39. Evaluate $2x + 7$, if $x = 3$.

$2x + 7 =$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

39. Evaluate $2x + 7$, if $x = 3$.

$$2x + 7 = 2 \cdot 3 + 7$$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

39. Evaluate $2x + 7$, if $x = 3$.

$$2x + 7 = 2 \cdot 3 + 7$$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

39. Evaluate $2x + 7$, if $x = 3$.

$$2x + 7 = 2 \cdot 3 + 7 = 6 + 7$$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

39. Evaluate $2x + 7$, if $x = 3$.

$2x + 7 = 2 \cdot 3 + 7 = 6 + 7 = \underline{13}$.

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

39. Evaluate $2x + 7$, if $x = 3$.

$2x + 7 = 2 \cdot 3 + 7 = 6 + 7 = \underline{13}$.

Step 1: Substitute **Step 2: Evaluate**

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

39. Evaluate $2x + 7$, if $x = 3$.

40. Evaluate $2(x + 7)$, if $x = 3$.

$2x + 7 = 2 \cdot 3 + 7 = 6 + 7 = \underline{13}$.

Step 1: Substitute

Step 2: Evaluate

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40. Evaluate $2(x + 7)$, if $x = 3$.

$2(x + 7) =$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

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Step 1: Substitute

Step 2: Evaluate

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40. Evaluate $2(x + 7)$, if $x = 3$.

$2(x + 7) = 2(3 + 7)$

Step 1: Substitute

Step 2: Evaluate

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Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

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40. Evaluate $2(x + 7)$, if $x = 3$.

$2(x + 7) = 2(3 + 7) = 2 \cdot 10$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

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$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

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$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

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40. Evaluate $2(x + 7)$, if $x = 3$.

$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

41. Evaluate $3x - 10$, if $x = 6$.

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

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39. Evaluate $2x + 7$, if $x = 3$.

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$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

41. Evaluate $3x – 10$, if $x = 6$.

$3x – 10 =$

Step 1: Substitute **Step 2: Evaluate**

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

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$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

41. Evaluate $3x - 10$, if $x = 6$.

$3x - 10 =$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

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40. Evaluate $2(x + 7)$, if $x = 3$.

$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

41. Evaluate $3x - 10$, if $x = 6$.

$3x - 10 = 3 \cdot 6 - 10$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

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$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

41. Evaluate $3x - 10$, if $x = 6$.

$3x - 10 = 3 \cdot 6 - 10$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

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Evaluate each of the following algebraic expressions for the given value of the variable.

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40. Evaluate $2(x + 7)$, if $x = 3$.

$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

41. Evaluate $3x - 10$, if $x = 6$.

$3x - 10 = 3 \cdot 6 - 10 = 18 - 10$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

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39. Evaluate $2x + 7$, if $x = 3$.

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40. Evaluate $2(x + 7)$, if $x = 3$.

$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

41. Evaluate $3x - 10$, if $x = 6$.

$3x - 10 = 3 \cdot 6 - 10 = 18 - 10 = \underline{8}$.

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

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40. Evaluate $2(x + 7)$, if $x = 3$.

$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

41. Evaluate $3x - 10$, if $x = 6$.

$3x - 10 = 3 \cdot 6 - 10 = 18 - 10 = \underline{8}$.

Step 1: Substitute **Step 2: Evaluate**

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

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40. Evaluate $2(x + 7)$, if $x = 3$.

$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

41. Evaluate $3x – 10$, if $x = 6$.

$3x – 10 = 3 \cdot 6 – 10 = 18 – 10 = \underline{8}$.

42. Evaluate $3(x – 10)$, if $x = 6$.

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

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Evaluate each of the following algebraic expressions for the given value of the variable.

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$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

41. Evaluate $3x – 10$, if $x = 6$.

$3x – 10 = 3 \cdot 6 – 10 = 18 – 10 = \underline{8}$.

42. Evaluate $3(x – 10)$, if $x = 6$.

$3(x – 10) =$

Step 1: Substitute **Step 2: Evaluate**

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

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Evaluate each of the following algebraic expressions for the given value of the variable.

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$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

41. Evaluate $3x – 10$, if $x = 6$.

$3x – 10 = 3 \cdot 6 – 10 = 18 – 10 = \underline{8}$.

42. Evaluate $3(x – 10)$, if $x = 6$.

$3(x – 10) =$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

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Evaluate each of the following algebraic expressions for the given value of the variable.

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$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

41. Evaluate $3x - 10$, if $x = 6$.

$3x - 10 = 3 \cdot 6 - 10 = 18 - 10 = \underline{8}$.

42. Evaluate $3(x - 10)$, if $x = 6$.

$3(x - 10) = 3(6 - 10)$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

39. Evaluate $2x + 7$, if $x = 3$.

$2x + 7 = 2 \cdot 3 + 7 = 6 + 7 = \underline{13}$.

40. Evaluate $2(x + 7)$, if $x = 3$.

$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

41. Evaluate $3x - 10$, if $x = 6$.

$3x - 10 = 3 \cdot 6 - 10 = 18 - 10 = \underline{8}$.

42. Evaluate $3(x - 10)$, if $x = 6$.

$3(x - 10) = 3(6 - 10)$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

39. Evaluate $2x + 7$, if $x = 3$.

$2x + 7 = 2 \cdot 3 + 7 = 6 + 7 = \underline{13}$.

40. Evaluate $2(x + 7)$, if $x = 3$.

$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

41. Evaluate $3x - 10$, if $x = 6$.

$3x - 10 = 3 \cdot 6 - 10 = 18 - 10 = \underline{8}$.

42. Evaluate $3(x - 10)$, if $x = 6$.

$3(x - 10) = 3(6 - 10) = 3 \cdot -4$

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

39. Evaluate $2x + 7$, if $x = 3$.

$2x + 7 = 2 \cdot 3 + 7 = 6 + 7 = \underline{13}$.

40. Evaluate $2(x + 7)$, if $x = 3$.

$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

41. Evaluate $3x - 10$, if $x = 6$.

$3x - 10 = 3 \cdot 6 - 10 = 18 - 10 = \underline{8}$.

42. Evaluate $3(x - 10)$, if $x = 6$.

$3(x - 10) = 3(6 - 10) = 3 \cdot -4 = \underline{-12}$.

Step 1: Substitute

Step 2: Evaluate

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

39. Evaluate $2x + 7$, if $x = 3$.

$2x + 7 = 2 \cdot 3 + 7 = 6 + 7 = \underline{13}$.

40. Evaluate $2(x + 7)$, if $x = 3$.

$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

41. Evaluate $3x – 10$, if $x = 6$.

$3x – 10 = 3 \cdot 6 – 10 = 18 – 10 = \underline{8}$.

42. Evaluate $3(x – 10)$, if $x = 6$.

$3(x – 10) = 3(6 – 10) = 3 \cdot -4 = \underline{-12}$.

Step 1: Substitute **Step 2: Evaluate**

Algebra I Unit 1 Variables and Algebraic Expressions

Evaluating Algebraic Expressions

Evaluate means to 'find the value of '

Evaluate each of the following algebraic expressions for the given value of the variable.

39. Evaluate $2x + 7$, if $x = 3$.

$2x + 7 = 2 \cdot 3 + 7 = 6 + 7 = \underline{13}$.

40. Evaluate $2(x + 7)$, if $x = 3$.

$2(x + 7) = 2(3 + 7) = 2 \cdot 10 = \underline{20}$.

Good luck on your homework !!

41. Evaluate $3x - 10$, if $x = 6$.

$3x - 10 = 3 \cdot 6 - 10 = 18 - 10 = \underline{8}$.

42. Evaluate $3(x - 10)$, if $x = 6$.

$3(x - 10) = 3(6 - 10) = 3 \cdot -4 = \underline{-12}$.

Step 1: Substitute **Step 2: Evaluate**