



Math Virtual Learning

Essential Math 4

May 6, 2020



Lesson: May 6, 2020

Objective/Learning Target:
I can use multiplication to understand exponents.



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You will explore the use of multiplication and its relationship to exponents.



Directions:

1. Click through the slides.
2. Watch all videos on slides.
3. Do what each slide asks on a separate sheet of paper.

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**Bell
 Work:
 May 6**

① Fill in the empty cells in this table.

Instructions	Pictures	Jing	Mali	Jacob
Think of a number.		9		11
		12		14
			6	
Add 4.		28		32
			5	16
Subtract your original number.		5		

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**Bell
 Work
 Key
 May 6**

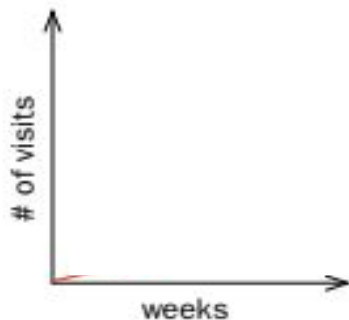
Instructions	Pictures	Jing	Mali	Jacob
Think of a number.		9	0	11
Add 3.		12	3	14
Multiply by 2.		24	6	28
Add 4.		28	10	32
Divide by 2.		14	5	16
Subtract your original number.		5	5	5

Practice Problems: Unit 11 Lesson 1 (page 7, #A)

(A) Determine whether the story shows growth by addition or by multiplication. Sketch a graph for each story.

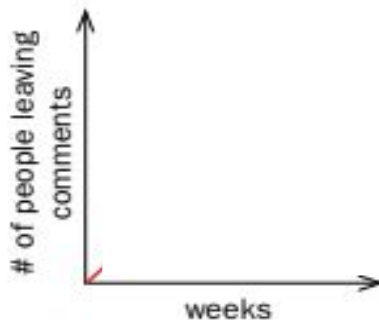
- (i)** You made a webpage. The number of visits tripled every week.

Is this growth by addition or multiplication?



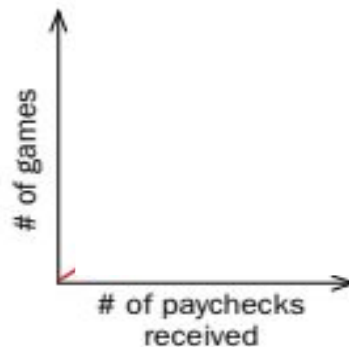
- (ii)** You made a webpage. Each week, a hundred more people wrote comments on your site.

Is this growth by addition or multiplication?



- (iii)** Every time you get a paycheck, you buy another game for your phone.

Is this growth by addition or multiplication?



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Answer Key: After completing the problems, check your answers for page 7 here.

(A) Determine whether the story shows growth by addition or by multiplication. Sketch a graph for each story.

- (i)** You made a webpage. The number of visits tripled every week.

Is this growth by addition or multiplication?



- (ii)** You made a webpage. Each week, a hundred more people wrote comments on your site.

Is this growth by addition or multiplication?



- (iii)** Every time you get a paycheck, you buy another game for your phone.

Is this growth by addition or multiplication?



Practice Problems: Unit 11 Lesson 1 (page 7, #B)

- B** Figure out the pattern in each table and describe the growth. Is the pattern based on constant addition or constant multiplication? By how much?

i

x	y
1	7
2	14
3	21
4	28
5	35
6	42

ii

x	y
1	5
2	10
3	20
4	40
5	80
6	160

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Answer Key:

After completing the problems, check your answers for page 7 here.

(i)

x	y
1	7
2	14
3	21
4	28
5	35
6	42

+ 7
 + 7
 + 7
 + 7
 + 7

addition of 7

(ii)

x	y
1	5
2	10
3	20
4	40
5	80
6	160

• 2
 • 2
 • 2
 • 2
 • 2

multiplication by 2

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Practice Problems: Unit 11 Lesson 1 (page 7, #B)

- B** Figure out the pattern in each table and describe the growth. Is the pattern based on constant addition or constant multiplication? By how much?

iii

x	y
1	3
2	15
3	27
4	39
5	51
6	63

iv

x	y
1	7
2	14
3	28
4	56
5	112
6	224

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Answer Key:
 After completing
 the problems,
 check your
 answers for page 7
 here.

iii

x	y
1	3
2	15
3	27
4	39
5	51
6	63

+12

+12

+12

+12

+12

addition of 12

iv

x	y
1	7
2	14
3	28
4	56
5	112
6	224

• 2

• 2

• 2

• 2

• 2

multiplication
 by 2



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Practice Problems: Unit 11 Lesson 1 (page 7, #C-D)

C Write a situation in which a quantity grows by addition.

D Write a situation in which a quantity grows by multiplication.



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Answer Key:

After completing the problems, check your answers for page 7 here.

- Ⓒ Write a situation in which a quantity grows by addition.

Responses will vary. The quantity must have a constant rate of change.

- Ⓓ Write a situation in which a quantity grows by multiplication.

Responses will vary. Situations may involve doubling, tripling, or other descriptions of multiplication.

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Fun Stuff:

9



← Find the total weight.



★ = 10

♣ = _____

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Fun Stuff **Key:**

⑨

50 ← Find the total weight.

★ = 10 ♣ = 5



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