Lesson 4: The Relationship of Division and Subtraction

Classwork

Exercise 1

Build subtraction equations using the indicated equations. The first example has been completed for you.

Division Equation	Divisor Indicates the Size of the Unit	Tape Diagram	What is <i>x</i> , <i>y</i> , <i>z</i> ?
$12 \div x = 4$	12-x-x-x-x=0	12-3-3-3-3=0; x = 3 units in each group	x = 3
$18 \div x = 3$			
$35 \div y = 5$			
$42 \div z = 6$			

Division Equation	Divisor Indicates the Number of Units	Tape Diagram	What is <i>x</i> , <i>y</i> , <i>z</i> ?
$12 \div x = 4$	12 - 4 - 4 - 4 = 0	12-4-4-4=0; x = 3 groups	x = 3
$18 \div x = 3$			
$35 \div y = 5$			
$42 \div z = 6$			

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Exercise 2

Answer each question using what you have learned about the relationship of division and subtraction.

a. If $12 \div x = 3$, how many times would x have to be subtracted from 12 in order for the answer to be zero? What is the value of x?

b. 36 - f - f - f - f = 0. Write a division sentence for this repeated subtraction sentence. What is the value of f?

c. If $24 \div b = 12$, which number is being subtracted 12 times in order for the answer to be zero?



Lesson 4: The Relation

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Problem Set

Build subtraction equations using the indicated equations.

	Division Equation	Divisor Indicates the Size of the Unit	Tape Diagram	What is <i>x</i> , <i>y</i> , <i>z</i> ?
1.	$24 \div x = 4$			
2.	$36 \div x = 6$			
3.	$28 \div y = 7$			
4.	$30 \div y = 5$			
5.	$16 \div z = 4$			

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