Homework

Activity 1

Prove the distributive property works by solving these problems two ways. First distribute, then find the sum in the parentheses before distributing the coefficient.

Model 2 (8 + 2) Answer: 2 • 8 + 2 • 2 = 16 + 4 = 20 2 • 10 = 20 The answers are the same. 1. 4 (3 + 4) 2. 5 (6 + 2) 3. 2 (5 + 6) 4. 10 (7 + 8)

Activity 2

Practice using the distributive property by simplifying these algebraic expressions.

Mode	el $3(x+5)$	\rightarrow	3 • <i>x</i> + 3	3•5	3 <i>x</i> + 15			
1. 4	(<i>x</i> + 2)		2 . 5	5 (1 +	<i>d</i>)	3	3.	2 (<i>z</i> + 8)
4 . a	(a + 7)		5	-6 (b	+ 20)			

Activity 3

Evaluate the expression using the properties you have learned.

1.	4 + 0 = ?	2 .	2 • 0 = ?	3.	3•0=?
	(a) O		(a) O		(a) O
	(b) 1		(b) 1		(b) 1
	(c) 4		(c) 2		(c) $\frac{1}{3}$
		_	1 -		
4.	5 + -5 = ?	5.	$a \cdot \frac{1}{a} = ?$		
4.	(a) O	5.	$\mathbf{a} \cdot \frac{1}{a} = ?$ (a) 0		
4.		5.	ŭ		

Activity 4 • Distributed Practice

Solve.

1.	$\frac{2}{3} \div \frac{2}{3} = a$	2.	$\frac{3}{4} + \frac{1}{2} = b$	3.	$(-4 \cdot -1) \cdot (-8 \div 4) = c$
4.	$3^2 + 2^2 - 10 = d$	5.	$\frac{18}{1} \cdot \frac{1}{18} = e$	6.	$-\frac{1}{3} - \frac{1}{3} = f$
7.	$\frac{2}{4} + -\frac{2}{8} = g$	8.	$\frac{8}{1} \cdot \frac{1}{16} = h$		