

Vocabulary

Distributive Property - To multiply a sum by a number, multiply each addend by the number outside the parentheses.

Example: $2(7+4) = 2 \times 7 + 2 \times 4$

Factoring the Expression - Writing a numeric or algebraic expression as a product of their factors.

Example: $6+8$
 $2(3+4)$ * pull out a common factor

Guided Practice:

Find $9 \times 8\frac{2}{3}$ mentally. Show the steps you used.

9×8
 72 + $9 \times \frac{2}{3}$
 $6 = \boxed{78}$

Use the **Distributive Property** to rewrite each algebraic expression.

2.) $3(x+1)$
 $3x+3$

3.) $5(x+8)$
 $5x+40$

4.) $4(x+6)$
 $4x+24$

Factor each expression.

5.) $25 + 60 \div 5$
 $5(5+12)$

6.) $4x + 40 \div 4$
 $4(x+10)$

7.) $12b + 48 \div 12$
 $12(b+4)$

7.) Six friends are going to the state fair. The cost of one admission is \$9.50, and the cost for one ride on the Ferris wheel is \$1.50. Write two equivalent expressions and then find the total cost.

$6(9.50 + 1.50) = 6 \cdot 9.50 + 6 \cdot 1.50$

$\boxed{\$66}$

Partner Talk

Use the Distributive Property to rewrite the algebraic expression.

$8(x+7)$
 $8x+56$

Building on the Essential Question - How can the distributive property help you to rewrite expression?

you can get rid of the outside number by multiplying it by both the inside numbers.

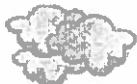
Rate Yourself - How confident are you about using properties? Check the box that applies.



Clear



Somewhat Clear



Not So Clear