

Objective 5

Apply the distributive property to determine an equivalent expression

Example 1: Rewrite the expression using the distributive property. Use the GCF of 28 and 12.

$$28+12=$$

Step 1: Find the GCF of 28 and 12

Number	Factors
28	1,2,4,7,14,28
12	1,2,3,4,6,12

Common Factors: 1, 2, 4 Greatest Factor: 4

Step 2: Rewrite the given expression using the GCF.

$$28+12 = (4 \times 7) + (4 \times 3)$$

Step 3: Rewrite the new expression using the distributive property

$$(4 \times 7) + (4 \times 3) = 4(7+3) \quad \leftarrow \quad \boxed{\text{Answer is } 4(7+3)}$$

Guided Practice:

Rewrite the expressions using the GCF

$$8+36=$$

$$56+16=$$

Independent Practice: Rewrite the following expressions using the GCF of both terms. *Show your work!*

1. $28+12=$
2. $8+36=$
3. $42+21=$
4. $35+65=$
5. $4+28=$
6. $36+48=$
7. $9+30=$
8. $24+64=$

Additional Help:

<https://www.youtube.com/watch?v=yrsvFRb3Pao>

http://www.virtualnerd.com/common-core/grade-6/6_NS-number-system/B/4/example-addition-distributive