GRADE 6 MATH · CLASSWORK · ADVANCED

Use the Greatest Common Factor and the Distributive Property to Find the Sum of Two Numbers

SCORE / 25

01 Part A · Practice

Factor out the GCF: $a + b = \text{GCF}\left(\frac{a}{\text{GCF}} + \frac{b}{\text{GCF}}\right)$.

EXAMPLE

Write 36 + 48 **using the GCF.**

1. GCF(36, 48) = 12.
2. 36 = 12 · 3, 48 = 12 · 4.
3. 36 + 48 = 12(3 + 4) = 12 · 7 = 84.

1 ●○○ Find 60 + 96 by first writing it as GCF × (a sum).

2 ●○○ Use the GCF and the Distributive Property to write 81 + 36 as a product.

3 ●○○ Find the missing number. 90 + 81 = □(10 + 9)

4 ●○○ Find the missing number. 90 + 36 = 18(5 + □)

5 ●○○ Use the GCF and the Distributive Property to write 92 + 69 as a product.

6 ●○○ Find 81 + 90 by first writing it as GCF × (a sum).

7 ●○○ Find 49 + 21 by first writing it as GCF × (a sum).

8 ●○○ Use the GCF and the Distributive Property to write 78 + 66 as a product.

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Preview - the full worksheet and its answer key are at primeworksheet.com