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Module 4 Fractions, Decimals, Percents, and Factors

Guided
Practice
4.3

## Set 1

(1) Find the factors of 36 .
$1,2,3,4,6,9,12,18,36$
(2) Determine whether each number is prime or composite.

19
prime

325
composite

21
composite

## Set 2

(1) Find the prime factorization of 42 .

$$
\begin{gathered}
42 \\
l \quad \backslash \\
6 \times 7 \\
/ \backslash \quad \backslash \\
2 \times 3 \times 7 \\
2 \times 3 \times 7
\end{gathered}
$$

(2)

Find the prime factorization of 96 .

|  | $\mathbf{9 6}$ |
| ---: | ---: |
| 2 | 48 |
| 2 | 24 |
| 2 | 12 |
| 2 | 6 |
| 2 | 3 |

$2 \times 2 \times 2 \times 2 \times 2 \times 3$ or $2^{5} \times 3$
(3) Find the prime factorization of 125 .

$$
\begin{gathered}
125 \\
l \quad \mid \\
5 \times 25 \\
/ \quad / \backslash \\
5 \times 5 \times 5 \\
5 \times 5 \times 5 \text { or } 5^{3}
\end{gathered}
$$

## Set 3

(1) Find the common factors of 30 and 72 .

30: 1, 2, 3, 5, 6, 10, 15, 30
72: 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72
Common factors: 1, 2, 3, 6
(2) Find the greatest common factor of 30 and 72 .

30: 1, 2, 3, 5, 6, 10, 15, 30
72: 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36,72
Greatest Common Factor: 6
(3) Find the greatest common factor of 90 and 135.

90: 1, 2, 3, 5, 6, 9, 10, 15, 18, 30, 45, 90
135: 1, 3, 5, 9, 15, 27, 45, 135
Greatest Common Factor: 45

## Set 4

(1)

Use prime factorization to find the GCF of 60 and 72.


GCF: $2 \times 2 \times 3=12$
(2) Use prime factorization to find the GCF of 30, 45, and 120 .
$\begin{array}{ll}30 & =2 \\ 45 & = \\ 120 & =2 \times 2 \times 2 \times\end{array} \times \begin{array}{r}3 \\ 3\end{array} \times 3 \times 5 \begin{array}{r}5 \\ 5 \\ 5\end{array}$

GCF: $3 \times 5=15$

