

CHAPTER 1 | CUMULATIVE REVIEW

Numerical Expressions and Factors

Name _____

Date _____

Show organized work. Simplify fractions. Explain when asked.

1. Simplify $\frac{18}{24}$. Explain how the common factor helps.

2. Write $\frac{3}{4}$ and $\frac{5}{6}$ using a common denominator.

3. Find $735 \div 15$ and verify with multiplication.

4. A rectangle is 12 units long and 8 units wide. Find its area and perimeter.

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5. Evaluate 4^3 and write $5 \times 5 \times 5 \times 5$ as a power.

6. Evaluate $30 - 2(7 + 3) + 3^2$.

7. List all factor pairs of 84, then write its prime factorization.

8. Find GCF(48,72) using prime factors.

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9. Find LCM(12,18) using prime factors.

10. A teacher has 36 pencils and 60 erasers. Make the greatest number of identical sets with no leftovers. How many sets, and what is in each?

11. Two lights flash every 8 and 14 seconds. Both flash now. When will they next flash together?

12. Find the LCD of $\frac{5}{12}$ and $\frac{7}{18}$. Rewrite both, then find their sum. Explain why the LCD is useful.
