

CHAPTER 3 — CUMULATIVE REVIEW

Review Chapters 1–3. Show your work; explain when asked.

1. Evaluate $3^2 + 2(7 - 4)$.

2. Find the GCF of 18 and 30.

3. Find the LCM of 6 and 8.

4. Calculate $\frac{3}{4} \div \frac{1}{2}$.

5. Calculate $4.2 \div 0.6$.

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6. Identify terms, coefficients, and constants: $2x^2 + y + 8$.

7. Write $5 \cdot a \cdot a \cdot a$ using an exponent.

8. Evaluate $2x^2 + 3y$ at $x = 3, y = 4$.

9. Write: 6 less than twice n .

10. Write: 3 times the sum of w and 5.

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11. Name the property: $a + 4 = 4 + a$.

12. Name the property: $(2a)5 = 2(a5)$.

13. Simplify $7 + (x + 3)$.

14. Use distribution to find 6×48 .

15. Expand $4(2x + 3)$.

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16. Simplify $3(x + 4) + 2x - 5$.
17. Factor $18x + 24$ using the GCF.
18. A museum costs $8a + 5c$ dollars for a adults and c children. Find the cost for 2 adults and 6 children.
19. A student writes $3(x + 2) = 3x + 2$. Correct it and explain.
20. A rectangle is 4 cm tall and has area $(12x + 20) \text{ cm}^2$. Find its width.