

CHAPTER 3 — PRACTICE TEST

50 minutes. Show your work; explain when asked.

Name _____ Date _____

1. Evaluate $4y$ when $y = 3$.
2. Evaluate $18 - x$ when $x = 6$.
3. Write: 6 multiplied by 3.
4. Write: the sum of 18 and a number h .
5. Write: the product of 4 and x . Then evaluate at $x = 5$.
6. Write: the quotient of y and 2. Then evaluate at $y = 10$.

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7. Name the property: $6m = m \cdot 6$.

8. Name the property: $0 + z = z$.

9. Name the property: $4(x - 3) = 4x - 12$.

10. Name the property: $(c + 1.2) + 0.8 = c + (1.2 + 0.8)$.

11. Simplify $4 + (g + 5)$. Explain each property step.

12. Simplify $6(3p)$. Explain each property step.

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13. Expand $4(c - 3)$.

14. Expand $6(x - 1)$.

15. Simplify $2(4 + d) - 1$.

16. Simplify $3(w + 1) - 3$.

17. Simplify $4.8n + 7.2 - 2.1n$.

18. Simplify $4k + 5(3 - k)$.

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19. Factor $8 + 20$ using the GCF.

20. Factor $42 - 24$ using the GCF.

21. Factor $18y - 12$ using the GCF.

22. Factor $7b + 35$ using the GCF.

23. Complete a table for $4p - 2$ at $p = 1, 2, 3, 4, 5$.

p	1	2	3	4	5
$4p - 2$					

24. A podcast has $35 - 0.5c$ minutes of content when it includes c sponsor messages. Find the content length when $c = 6$.

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25. A shop estimates sales tax by dividing an item price by 20. (a) Write the tax for an item costing d dollars. (b) Find the tax for an item costing \$900.

26. A training schedule has 5 hours per weekday and 8 hours per weekend day. (a) Write the total for x weekdays and y weekend days. (b) Evaluate for 2 weekdays and 3 weekend days.

27. A square has side length $8x$ inches. Write its perimeter.

28. A concert ticket costs $(22 - d)$ dollars after a discount of d dollars. Write and distribute the cost of 4 tickets.