

Practice Level A

$$4. (z^3)^5 = z^{3 \cdot 5} = z^{15} \quad 5. (5x)^4 = 5^4 x^4 = 625x^4$$

$$6. 3^3 \cdot 3^1 = 3^{3+1} = 3^4$$

$$7. (-4y^2)^3 = (-4)^3 (y^2)^3 = -64y^6$$

$$8. (x^2y^4)^3 = (x^2)^3 (y^4)^3 = x^6y^{12}$$

$$9. x^2(x^3y)^2 = x^2(x^3)^2y^2 = x^2x^6y^2 = x^8y^2$$

$$19. x^4 \quad 20. y^8 \quad 21. z^{13} \quad 22. m^{28} \quad 23. b^{18}$$

$$24. p^{15} \quad 25. 27n^3 \quad 26. 32x^5 \quad 27. x^6y^6$$

Practice Level B

$$13. x^7 \quad 14. y^8$$

$$15. a^{18} \quad 16. z^{25} \quad 17. b^{14} \quad 18. (b + 1)^6$$

$$19. 81x^4 \quad 20. -81x^4 \quad 21. 32a^5b^5 \quad 22. 64x^{18}y^6$$

$$23. 81m^{31} \quad 24. 36p^{12} \quad 25. 6 \quad 26. 3 \quad 27. 6$$