

## *Answer Key*

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### **Lesson 10.2**

#### **Practice Level B**

**1.** 15   **2.** 56   **3.** 35   **4.** 36   **5.** 715   **6.** 210

**7.** 495   **8.** 1001   **9.** 65,780   **10.** 27,885

**11.** 171,600   **12.** 103,776   **13.** 1,645,020

**14.** 886,656   **15.**  $x^4 - 8x^3 + 24x^2 - 32x + 16$

**16.**  $x^3 + 9x^2 + 27x + 27$    **17.**  $32x^5 + 400x^4 + 2000x^3 + 5000x^2 + 6250x + 3125$

**18.**  $4096x^6 - 6144x^5 + 3840x^4 - 1280x^3 + 240x^2 - 24x + 1$

**19.**  $x^3 + 18x^2y + 108xy^2 + 216y^3$

**20.**  $x^5 - 25x^4y + 250x^3y^2 - 1250x^2y^3 + 3125xy^4 - 3125y^5$

**21.**  $729x^6 - 1458x^5y + 1215x^4y^2 - 540x^3y^3 + 135x^2y^4 - 18xy^5 + y^6$

**22.**  $4096x^4 + 2048x^3y + 384x^2y^2 + 32xy^3 + y^4$

**23.** 1,088,640   **24.** -26,730   **25.** 115,200

**26.** 3,041,280   **27.** 6435   **28.** 700   **29.** 205,800