**Chapter 5 Study Guide: Expressions**

**Write the correct answer in the blank at the right of each question.**

 **1.** Name the property of multiplication that is shown by the
equation 17*x* • 1 = 17*x*.

 **2.** Use the Distributive Property to write 6(*w* + 5) as an equivalent expression.

 **3.** Name the property that is shown by the equation 5(4 + *g*) = 5(4) + 5( *g*).

 **4.** Simplify the expression –3(4*x* + 5) – 2(–5*x* + 8)

 **5.** Identify the next three terms in the arithmetic sequence

 4.2, 4.8, 5.4, 6.0, …

 **6.** Find the GCF of 6*ab,* 3*a*.

 **7.** Add (–7*x* + 1) + (2*x* – 11).

 **8.** Subtract (11*x* – 9) – (–4*x* – 6).

**1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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 **9.** Caroline bought 5 bracelets. Find the total cost of the bracelets if each bracelet cost $3.10. Justify your answer by using the Distributive Property.

 **10.** Write the expression 7*b* – 3(*b* – 1) in simplest form.

 **11.** Evaluate the expression 3(9 – 16).

 **12.** Evaluate the expression 4*b* – 6*d* if *b* = 7 and *d* = 3.

 **13.** Evaluate the expression $\frac{8b}{a}$if *b* = 8 and *a* = 2.

 **14.** Justin sent 24 text messages on Monday, 48 on Tuesday, 36 on Wednesday, and 22 on Thursday. Use mental math to find the total number of messages he sent during the four days. Explain.

 **15.** Explain why the expression 13*x* + 10 cannot be factored.

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**9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**11. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**12. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**13. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**14. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**