

Accelerated Math 7 Chapter 7 Practice Test

<p>1. Which expression is equivalent to $4(15 - 7)$?</p> <p>A. $(15 + 4) - (7 + 4)$ C. $15(4) - 7(4)$ B. $(15 - 7) + (15 - 4)$ D. $4(15) + 4(7)$</p>	1.
<p>2. Which of the following expressions can be written as $10(x - y)$?</p> <p>A. $10x \cdot 10y$ C. $10x \cdot (-y)$ B. $10xy - 10yx$ D. $10x - 10y$</p>	2.
<p>3. On a school trip to the space museum, 30 students visited the astronaut exhibit. Tickets for admission cost \$18. Which expression can be used to mentally compute the total cost of admission tickets?</p> <p>A. $30(10 + 8)$ C. $15(2 + 8)$ B. $15 \cdot 2 + 10 \cdot 8$ D. $30(10 - 8)$</p>	3.
<p>4. Identify the like terms in the expression $7x + 4y + 3y + 7$.</p> <p>A. $7x$ and 7 B. $4y$ and $3y$ C. 7 D. $7, 4,$ and 3</p>	4.
<p>5. The area of a triangle can be determined by $\frac{1}{2}bh$, where b is the length of the base and h is the height. What is the coefficient in the expression $\frac{1}{2}bh$?</p> <p>A. b B. h C. $\frac{1}{2}$ D. 1</p>	5.
<p>6. Which of the following expressions correctly combines like terms?</p> <p>A. $4x + 7 + 2x - 4y = 6x + 3y$ B. $2x + 7y + 2x - 4y = 4x + 3y$ C. $2x + 7y + 2x - 4 = 4x + 3y$ D. $4x + 7y + 2x + 4y = 6x + 3y$</p>	6.
<p>7. Mateo and Haley both collect coins. Mateo has 8 more coins in her collection than Haley. Which expression represents the total number of coins in both collections?</p> <p>A. $2c + 8$ B. $c + 8$ C. $2c(8)$ D. $8 - 2c$</p>	7.
<p>8. Bradley rents a fishing boat for the day. The total cost for gasoline is represented by the expression $3.25m + 15$. What is the constant in the expression?</p> <p>A. 3.25 B. 15 C. m D. $3.25m$</p>	8.
<p>9. What is the GCF of $100xyz$ and $25xz$?</p>	9.

<p>10. A triangle has side lengths of $(4x - 10)$ units, $(2x + 6)$ units, and $5x$ units. Which expression represents the perimeter of the triangle?</p> <p>A. $(11x + 16)$ units B. $(6x - 4 + 5)$ units C. $(11x - 4)$ units D. $(14x + 8x + 5x)$ units</p>	10.								
<p>11. The expression $(2.2x + 8)$ represents the number of miles Trent jogged during a race, and $5x$ represents the number of miles that Ling jogged during the same race, in x hours. Write an expression to show how many more miles Ling jogged than Trent.</p>	11.								
<p>12. Rewrite the following expression using the Distributive Property. $13 \cdot (-16) + 14 \cdot 16$</p>	12.								
<p>13. The width of a rectangle is $4x$ units and its length is $(6x - 2)$ units. What happens to the area of the rectangle if the length is doubled?</p>	13.								
<p>14. Write an expression in factored form that is equivalent to the expression $\frac{3}{4}x + 24$.</p>	14.								
<p>An animal hospital provides aid to sick and injured sea turtles. The cost of visiting the hospital for x number of visitors is shown in the table.</p> <table border="1" data-bbox="399 1066 805 1255" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">Admission Cost</th> </tr> <tr> <th>Admission Ticket</th> <th>Cost (\$)</th> </tr> </thead> <tbody> <tr> <td>weekday</td> <td>$7.50x + 5$</td> </tr> <tr> <td>weekend</td> <td>$15x + 10$</td> </tr> </tbody> </table>	Admission Cost		Admission Ticket	Cost (\$)	weekday	$7.50x + 5$	weekend	$15x + 10$	15.
Admission Cost									
Admission Ticket	Cost (\$)								
weekday	$7.50x + 5$								
weekend	$15x + 10$								
<p>15. Write an expression in factored form that is equivalent to the sum of weekday and weekend tickets.</p> <p>16. Write an expression to show how much greater the cost is for a weekend ticket than a weekday ticket.</p>	16.								
<p>17. The perimeter of a square-shaped garden is $(12x + 20)$ feet. Write an expression to represent the length of one side of the garden.</p>	17.								
<p>18. Which expression in factored form is equivalent to $\frac{1}{5}x + 10$?</p> <p>A. $\frac{1}{5}(x + 50)$ B. $5(x - 10)$ C. $\frac{1}{5}(10x + 50)$ D. $5(10x - 5)$</p>	18.								