6th Grade Honors Unit 7 Practice Quiz

Student

Class

Date

1. What is the value of $(2r + \frac{1}{2})^2$ when r = 0. Write your answer as a fraction.

2. What is the value of $1{,}308 \div 10^2$. Write your answer as an improper fraction or a decimal.

3. Sam is using the expression $\frac{m}{8n}$. What is the value of the expression when m = 2 and n = $\frac{1}{4}$? Write your answer as an improper fraction or a decimal.

4. What is the value of $(4^2 - 8) \div 4 \times 2^3$?

5. Which expression is equivalent to 5x – 50y ?

   A. 5 (x – 50y)
   B. 5(x – 10y)
   C. 5x(x – 10y)

$0.50

6. Jason owns a party supply store.

   - He sells balloons for each and party hats for $1.25 each.
   - Jason buys each balloon for $0.20 and each party hat for $0.20.

$0.20

Which expression represents how much money Jason gains from selling *n* balloons and *h* party hats?

7. Which expression is equivalent to $\frac{1}{2}(2n + 6)$?

   A $\frac{1}{2} + 2n + 6$

   B $2\frac{1}{2}n + 6\frac{1}{2}$

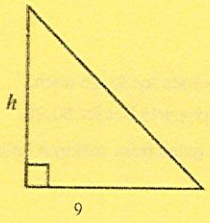
   C $n + 6$

   D $n + 3$

8. An equilateral triangle has side lengths of $5x + 5$. What is the perimeter of the triangle?

9. A parallelogram has a base 10 inches long and a height that can be represented by the expression (x + 2) inches. Write the expression could represent the area of the parallelogram?

10. The figure below shows a right triangle with a base length of 9 and a height h.



Which expression is equivalent to the area of the triangle?

A. $9h$

B. $18h$

C. $36h$

D. $72h$

11. Brandon exercised x hours 5 times each week for 12 weeks. Which expression represents the total amount of hours Brandon exercised?

A. $5 + x + 12$

B. $5 + 12x$

C. $60 + x$

D. $60x$

12. Emma wants to write an expression to represent her daily earnings. She earns a base rate of $25 per day and then $5 for each flower arrangement (f) she makes. Write the expression could be used to represent Emma's total daily earnings in dollars?

13. At a local fair, a hamburger cost $3.50, and a drink cost $2.00. Which expression represents the cost of x number of hamburgers and y number of drinks?

A. $2.50xy$

B. $5.50 + x + y$

C. $3.50x + 2.00y$

D. $3.50 + x + 2.00 + y$