Grade 7 Simplifying Algebraic Expressions – Multiplication

Multiplication

1. \( m \times m \)  
2. \( t \times t \times t \times t \times t \)
3. \( p \times p \)  
4. \( y \times 5 \)
5. \( 5r \times r \)  
6. \( 6m \times m \)
7. \( 4a \times a \)  
8. \( 3c \times c \)
9. \( 4d \times 5d \)  
10. \( 5w \times 6w \)
11. \( 4m \times 8m \)  
12. \( 4e \times 7e \)
13. \( 2b^2 \times b \)  
14. \( 2a^3 \times a \)
15. \( 5t^2 \times t \)  
16. \( 3s^2 \times s \)
17. \( 2t^3 \times 4t^2 \)  
18. \( 9u^4 \times 5u^3 \)
19. \( 2g^3 \times 3g^2 \)  
20. \( 4c^5 \times 5c^4 \)

Multiplication and Addition (Review)

1. \( a + a \)  
2. \( a \times a \)
3. \( 3h + h \)  
4. \( 3h \times h \)
5. \( 6v + 3v \)  
6. \( 6v \times 3v \)
7. \( 8f + 2f \)  
8. \( 8f \times 2f \)
9. \( y^2 + y \)  
10. \( y^2 \times y \)
11. \( m^3 + m^2 \)  
12. \( m^3 \times m^2 \)
13. \( 3e^4 + 4e^3 \)  
14. \( 3e^4 \times 4e^3 \)

PROBLEM #1

Andy made a pizza that is in the shape of a rectangle. There are pepperoni, mushrooms, ground beef, onions, tomatoes, and extra cheese on his pizza. The area of his pizza is 675 cm\(^2\). The length of the pizza is 3 times the width of the pizza. He left his pizza unattended in Room 204 and Mr. Au ate the whole pizza. What is the length and width of Andy’s pizza? What lesson did he learn from this experience?