**Chapter 8 test review**

**Short Answer**

*Factor the monomial completely.*

 1. 

 2. -

*Find the GCF of the set of monomials.*

 3. , 

 4. , , 

*Factor the polynomial.*

 5. 

 6. 

*Solve the equation.*

 7. 

 8. 

 9. 

 10. 

 11. 

 12. 

 13. 

 14. 

 15. 

 16. 

*Factor the trinomial.*

 17. 

 18. 

*Solve the trinomial equation.*

 19. 

 20. 

*Factor the trinomial, if possible. If the trinomial cannot be factored using integers, write prime.*

 21. 

*Solve the equation.*

 22. 

 23. 

*Factor the polynomial, if possible. If the polynomial cannot be factored, write prime.*

 24. 

 25. 

*Solve the equation by factoring.*

 26. 

 27. 

*Factor the polynomial.*

 28. 

 29. 

*Write an expression in factored form for the area of the shaded region.*

 30. 

 31. The rectangle has an area of 24 square centimeters. Find the length *a* of the rectangle.



 32. The length of a rectangle is 4 more than its width. The area of the rectangle is 45 square centimeters. What is the length and width of the rectangle?

 33. A square has an area of  square meters. What is the perimeter of the square?

**Chapter 8 test review**

**Answer Section**

**SHORT ANSWER**

 1. 

 2. 

 3. 

 4. 

 5. 

 6. 

 7. 

 8. 

 9. 

 10. 

 11. 

 12. 

 13. 

 14. 

 15. 

 16. 

 17. 

 18. 

 19. 

 20. 

 21. (3*t* + 4)( *t* + 2)

 22. 

 23. 

 24. 

 25. 

 26. 

 27. 

 28. 

 29. 

 30. 



Use the Distributive Property to factor polynomials.

 31. 8 cm





Two variables,  and , exist such that .

 and .

Make a table to find the possible solutions.

 32. 9 cm and 5 cm





Two variables,  and , exist such that .

 and .

Make a table to find the possible solutions.

 33.  m

Two variables,  and , exist such that .

 and .

Make a table to find the possible solutions.

