**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. 

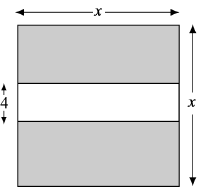
27. 

*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.

