Name Date

Skill Drill 1 (3rd 9 weeks)

1. Factor the polynomial completely.

a. 

b. 

c. 

d. 

2. Solve the equation.

a. 

b. 

3. You are building a brick patio. The length of the patio is  feet.

a. The total area of the patio can be represented by  Write an expression for the width of the patio.

b. Write an expression for the perimeter of the patio.

c. The area of the patio is 240 square feet. Find the value of *x*.

d. You are putting edging around the patio and have a budget of $200 for the edging. You found edging that costs $2.75 per foot. Is this edging within your budget? Explain.

Name Date

Alternative Assessment Rubric

Chapter

7

|  |  |  |  |
| --- | --- | --- | --- |
| Score | Conceptual Understanding | Mathematical Skills | Work Habits |
| 4 | Completely understands:   * factoring polynomials * solving polynomial equations in factored form * using polynomials to solve perimeter and area problems | Completely factors all of the polynomials in Exercise 1  Correctly solves all of the polynomial equations in factored form  Correctly uses polynomials to solve all of the perimeter and area problems | Answers all parts of all three problems  All equations and polynomials are written carefully and systematically.  Work is very neat and well organized. |
| 3 | Shows nearly complete understanding of:   * factoring polynomials * solving polynomial equations in factored form * using polynomials to solve perimeter and area problems | Completely factors most of the polynomials in Exercise 1  Correctly solves most of the polynomial equations in factored form  Correctly uses polynomials to solve most of the perimeter and area problems | Answers several parts of all three problems  Most equations and polynomials are written carefully and systematically.  Work is neat and organized. |
| 2 | Shows some understanding of:   * factoring polynomials * solving polynomial equations in factored form * using polynomials to solve perimeter and area problems | Completely factors some of the polynomials in Exercise 1  Correctly solves some of the polynomial equations in factored form  Correctly uses polynomials to solve some of the perimeter and area problems | Answers some parts of all three problems  Equations and polynomials are written carelessly.  Work is not very neat  or organized. |
| 1 | Shows little understanding of:   * factoring polynomials * solving polynomial equations in factored form * using polynomials to solve perimeter and area problems | Factors one of the polynomials in Exercise 1  Solves one of the polynomial equations in factored form  Uses polynomials to solve perimeter and area problems | Does not attempt many parts of the three problems  Equations and polynomials are written carelessly.  Work is sloppy and disorganized. |