

**7-7 Practice**

Form G

**Factoring Perfect Squares****Factor each expression.**

1.  $h^2 + 10h + 25$

2.  $v^2 - 14v + 49$

3.  $d^2 - 22d + 121$

4.  $m^2 + 4m + 4$

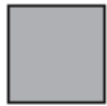
5.  $q^2 + 6q + 9$

6.  $p^2 - 24p + 144$

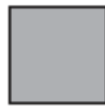
7.  $36x^2 + 60x + 25$

8.  $64x^2 + 48x + 9$

9.  $49n^2 + 14n + 1$

**The given expression represents the area. Find the side length of the square.**

10.  $64x^2 + 80x + 25$



11.  $9y^2 - 24y + 16$



12.  $4t^2 + 36t + 81$

13. The area of a square parking lot is  $49p^4 - 84p^2 + 36$ . Find the length of the parking lot.

14. A fabric designer is making a checked pattern. Each square in the pattern has an area of  $x^2 - 16x + 64$ . What is the length of one side of a check?

15. A mosaic is made of small square tiles called tesserae. Suppose the area of one tesserae is  $9x^2 + 12x + 4$ . What is the length of one side of a tesserae?