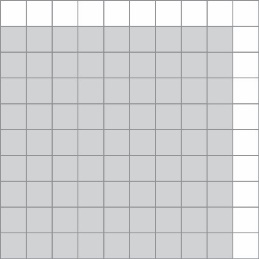
Investigating Perfect Square Fractions   
 Answers

**Number**

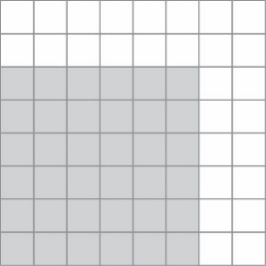
**Unit 1 Line Master 5c**

1. a)

b) 9 units

c) units

d) 9 is the square root of 81 and 10 is the square root of 100.  
e) Yes, because it can be represented by a square with side length units.   
Also, I can see that it is a perfect square in the grid.

2. a)

b) 6 units

c) units

d) 6 is the square root of 36 and 8 is the square root of 64.

e) Yes, because it can be represented with a square with side length units.

3. a) is a perfect square because it can be represented with a square of side length  
 units. The square root is :

b) is a perfect square because it can be represented with a square of side length   
 units. The square root is , or :

c) is not a perfect square. I cannot represent 75 with a square.

d) is not a perfect square. I cannot represent 14 with a square.

**Investigating Perfect Square Fractions**

**Number**

**Unit 1 Line Master 5d**

**Answers** (cont’d)

4. a) is a perfect square, because the numerator, 49, and the denominator, 16, are both perfect squares; the square root is or .

b) is not a perfect square, because the numerator, 75, is not a perfect square.

c) is a perfect square, because the numerator, 49, and the denominator, 9,   
are both perfect squares; the square root is or .

d) is a perfect square, because the numerator, 121, and the denominator, 36, are both perfect squares; the square root is or .