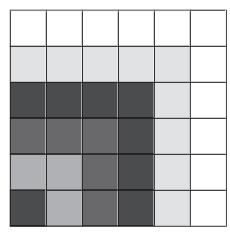
Use Color Tiles to estimate the square root of the given number. Fill in the blanks. Write a sentence about the estimate of the square root.

1. $\sqrt{28}$



28 is between the square numbers of

_____ and ____.

 $\sqrt{28}$ is between _____ and ____.

It is closer to _____.

Using Color Tiles, model square numbers to help you estimate the given square root. Sketch the model. Write the estimate and justify it.

2. √76

76 is between the square numbers of

_____ and ____.

 $\sqrt{76}$ is between _____ and ____.

It is closer to _____.

Estimate each square root. Write the two numbers the square root is between and circle the number it is closer to.

3. $\sqrt{15}$

4. √45

5. √33

6. √65

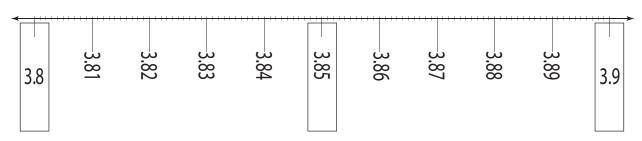
7. $\sqrt{20}$

8. $\sqrt{50}$

Name	
Challenge! square root i	Explain how you decide which two numbers the value of a is between.
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	T

Use the Folding Number Line to estimate the square root. Fill in the blanks.

1. √15



 $\sqrt{15}$ is between the whole numbers _____ and ____.

A better estimate is between ____ and ____.

A better estimate is between _____ and ____.

A better estimate is between _____ and ____.

Using the Folding Number Line, estimate the square root. Fill in the blanks.

2. √38

 $\sqrt{38}$ is between the whole numbers _____ and ____.

A better estimate is between _____ and ____.

A better estimate is between _____ and ____.

A better estimate is between _____ and ____.

Give the tenths interval on which the irrational number falls.

3. √75 _____

4. √56 _____

5. √117 _____

6. √48 _____

Name		
Challenge! Using the Folding Number Line, show $\sqrt{17}$ and explain why increasing the number of decimal places in the endpoints of a range makes the estimate of an irrational square root more accurate.		
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