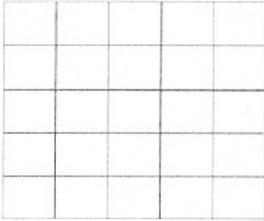


Building Squares and Square Roots

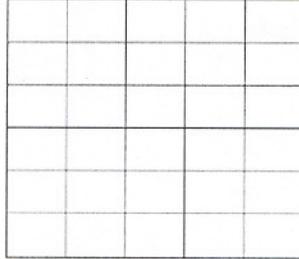
This activity is provided to show the relationship of squares and square roots.

5 x 5 grid



$$\sqrt{25} = 5$$

5 x 6 grid



$$\sqrt{30} = \text{Between 5 and 6, closer to 5}$$

Part I

Using a sheet of graph paper, draw the following.

1. 3 x 3 grid
2. 6 x 6 grid
3. 4 x 6 grid
4. 6 x 3 grid

Which of the above are true squares? _____

PART II

Find the square root of the following. If it is not a true square root, write the 2 numbers that it falls between. Circle the number that it is closest to.

Example: $\sqrt{61}$ falls between 7 and 8. Circle 8 because $\sqrt{61}$ is closer to 8.

$$\sqrt{36} \underline{\hspace{2cm}} \qquad \sqrt{50} \underline{\hspace{2cm}}$$

$$\sqrt{81} \underline{\hspace{2cm}} \qquad \sqrt{49} \underline{\hspace{2cm}}$$