

# MathFLIX CHALLENGE

## *Division vs. Square Root*

For each problem below, fill in whole numbers to make the statement correct. Circle the division problem that is equivalent to the square root.

| Division   | Square Roots                           |
|--|--|
| $1\overline{)16}$ $2\overline{)16}$ $4\overline{)16}$ $8\overline{)16}$ $16\overline{)16}$   | $\sqrt{16} = 4$                        |
| $1\overline{)36}$ $2\overline{)36}$ $3\overline{)36}$ $4\overline{)36}$ $6\overline{)36}$ $9\overline{)36}$ $12\overline{)36}$ $18\overline{)36}$ $36\overline{)36}$ | $\sqrt{36} = \underline{\hspace{1cm}}$ |
| $1\overline{)64}$ $2\overline{)64}$ $4\overline{)64}$ $8\overline{)64}$ $16\overline{)64}$ $32\overline{)64}$ $64\overline{)64}$                                     | $\sqrt{64} = \underline{\hspace{1cm}}$ |
| $1\overline{)25}$ $5\overline{)25}$ $\overline{)25}$   | $\sqrt{25} = \underline{\hspace{1cm}}$ |

Estimate the decimal square roots for the following irrational numbers based on what you know about  $\sqrt{9}$  and  $\sqrt{16}$ .

$$\sqrt{9} = 3.000$$

$$\sqrt{10} = \underline{3.\hspace{1cm}} \quad \text{Try } 3.12 \bullet 3.12$$

$$\sqrt{11} = \underline{3.\hspace{1cm}}$$

$$\sqrt{12} = \underline{3.\hspace{1cm}}$$

$$\sqrt{13} = \underline{3.\hspace{1cm}}$$

$$\sqrt{14} = \underline{3.\hspace{1cm}}$$

$$\sqrt{15} = \underline{3.\hspace{1cm}}$$

$$\sqrt{16} = 4.000$$