

ESTIMATING SQUARE ROOTS

Name: _____ Date: _____ Pd: _____

Maze #1

Instructions: Follow the best estimate of each square root plotted on the number lines to make it correctly through the maze. Shade or color your path as you go.

START

The maze consists of the following square root symbols in each cell:

- Row 1: $\sqrt{84}$, $\sqrt{108}$, $\sqrt{30}$
- Row 2: $\sqrt{94}$, $\sqrt{118}$, $\sqrt{12}$, $\sqrt{120}$, $\sqrt{132}$, $\sqrt{172}$, $\sqrt{185}$
- Row 3: $\sqrt{5}$, $\sqrt{15}$, $\sqrt{125}$
- Row 4: $\sqrt{8}$, $\sqrt{50}$, $\sqrt{199}$, $\sqrt{20}$, $\sqrt{46}$, $\sqrt{10}$, $\sqrt{13}$
- Row 5: $\sqrt{57}$, $\sqrt{210}$, $\sqrt{40}$

FINISH!

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Maze #2

Instructions: Follow the best estimate of each square root plotted on the number lines to make it correctly through the maze. Shade or color your path as you go.

START

The maze consists of 4 rows and 6 columns of boxes. Each box contains a number line with a dot and a diamond-shaped arrow pointing to the next box. The arrows contain square root expressions. The path starts at the top-left box and ends at the bottom-right box labeled "FINISH!".

Row 1:

- Box 1: Number line from 11 to 12, dot at 11.5. Arrow: $\sqrt{129}$
- Box 2: Number line from 1 to 2, dot at 1.5. Arrow: $\sqrt{4}$
- Box 3: Number line from 5 to 6, dot at 5.5. Arrow: $\sqrt{30}$
- Box 4: Number line from 9 to 10, dot at 9.5. Arrow: $\sqrt{102}$

Row 2:

- Box 1: Arrow: $\sqrt{122}$
- Box 2: Arrow: $\sqrt{6}$
- Box 3: Arrow: $\sqrt{132}$
- Box 4: Arrow: $\sqrt{193}$

Row 3:

- Box 1: Number line from 8 to 9, dot at 8.5. Arrow: $\sqrt{79}$
- Box 2: Number line from 3 to 4, dot at 3.5. Arrow: $\sqrt{11}$
- Box 3: Number line from 13 to 14, dot at 13.5. Arrow: $\sqrt{125}$
- Box 4: Number line from 2 to 3, dot at 2.5. Arrow: $\sqrt{5}$

Row 4:

- Box 1: Arrow: $\sqrt{72}$
- Box 2: Arrow: $\sqrt{198}$
- Box 3: Arrow: $\sqrt{56}$
- Box 4: Arrow: $\sqrt{5}$

Row 5:

- Box 1: Number line from 5 to 6, dot at 5.5. Arrow: $\sqrt{28}$
- Box 2: Number line from 14 to 15, dot at 14.5. Arrow: $\sqrt{210}$
- Box 3: Number line from 7 to 8, dot at 7.5. Arrow: $\sqrt{63}$
- Box 4: **FINISH!**