②

Draw and label a square with an area of 16.

①

IS A SQUARE A RECTANGLE?

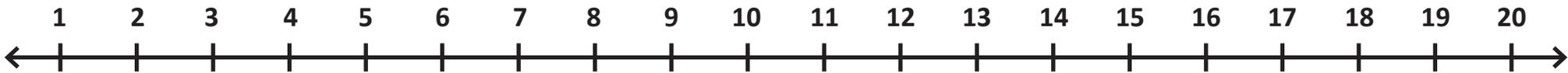**Claim:** *Circle one statement.*

A square is a rectangle.

A square is not a rectangle.

Evidence

- _____

- _____

- _____

- _____

Reasoning

_____

_____

_____

_____

_____

_____

_____

_____

_____

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

③

Write the corresponding square root beneath each whole number on the number line.

④

ESTIMATING NON-PERFECT SQUARE ROOTS

Non-perfect square roots are _____.

For an integer that is NOT a perfect square, you can _____ a square root.

HOW TO ESTIMATE A NON-PERFECT SQUARE ROOT

Find the two perfect _____

_____ that are directly _____ and

directly _____ the number. Estimate the square

root _____ these two numbers.

For example, 8 is not a _____ square number.

____ and ____ are the two closest square numbers.

$\sqrt{4}$ = ___ $\sqrt{9}$ = ___

$\sqrt{8}$ will fall between ____ and ____

My estimate: $\sqrt{8}$ ≈ _____

⑤

EXAMPLES OF ESTIMATING NON-PERFECT SQUARE ROOTS

$\sqrt{135}$ is between $\sqrt{}$ and $\sqrt{}$ which is

between ____ and _____ so $\sqrt{135}$ ≈ _____

$\sqrt{45}$ is between $\sqrt{}$ and $\sqrt{}$ which is

between ____ and _____ so $\sqrt{45}$ ≈ _____

$\sqrt{99}$ is between $\sqrt{}$ and $\sqrt{}$ which is

between ____ and _____ so $\sqrt{99}$ ≈ _____

$\sqrt{150}$ is between $\sqrt{}$ and $\sqrt{}$ which is

between ____ and _____ so $\sqrt{150}$ ≈ _____

$\sqrt{60}$ is between $\sqrt{}$ and $\sqrt{}$ which is

between ____ and _____ so $\sqrt{60}$ ≈ _____