The Pigeonhole Principle

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This is an inline equation: $y = mx + b$

This is a fraction: $\frac{1234}{3456}$

This is a set

$$S = \{0, 1, 2, 3, 4, 5, 6, 7\}$$

This is a ceiling:

$$\lceil \frac{111}{5} \rceil$$

This is a better ceiling:
$$\left\lceil \frac{111}{5} \right\rceil$$