## Squares and Square Roots (A)

Instructions: Find the square root or square of each integer.

$$\sqrt{256} = 16$$

$$\sqrt{4} = 2$$

$$\sqrt{169} = 13$$

$$\sqrt{256} = 16$$
  $\sqrt{4} = 2$   $\sqrt{169} = 13$   $\sqrt{100} = 10$ 

$$\sqrt{121} = 11$$

$$\sqrt{196} = 16$$

$$\sqrt{16} = 4$$

$$\sqrt{121} = 11$$
  $\sqrt{196} = 16$   $\sqrt{16} = 4$   $\sqrt{64} = 8$ 

$$\sqrt{1} = 1$$

$$\sqrt{9} = 3$$

$$\sqrt{49} =$$

$$\sqrt{1} = 1$$
  $\sqrt{9} = 3$   $\sqrt{49} = 7$   $\sqrt{144} = 12$ 

$$\sqrt{225} = 15$$

$$\sqrt{81} = 9$$

$$\sqrt{25} = 5$$

$$\sqrt{225} = 15$$
  $\sqrt{81} = 9$   $\sqrt{25} = 5$   $\sqrt{36} = 6$ 

$$11^2 = |2|$$

$$13^2 = 169$$

$$14^2 = 196$$

$$11^2 = |2|$$
  $13^2 = |6|$   $14^2 = |9|$   $10^2 = |00|$ 

$$12^2 = 144$$

$$1^2 = 1$$

$$12^2 = 144$$
  $1^2 = 1$   $15^2 = 225$   $6^2 = 36$ 

$$6^2 = 36$$

$$9^2 = 8$$

$$3^2 = 9$$

$$4^2 = 16$$

$$3^2 = 9$$
  $4^2 = 16$   $16^2 = 256$ 

$$8^2 = 6$$

$$7^2 = 49$$

$$= 64$$
  $7^2 = 49$   $5^2 = 25$   $2^2 = 4$ 

$$2^2 = 4$$

## Estimating Square Roots

Name: Score:

Use your square root estimation skills and fill in the blanks.

$$\sqrt{110}$$
 is between  $\boxed{10}$  and  $\boxed{11}$ 

$$\sqrt{12}$$
 is between  $\boxed{3}$  and  $\boxed{4}$ 

$$\left(\frac{3}{4}\right)$$
 and  $\left(\frac{4}{4}\right)$ 

$$10 \times 10 = 100$$
  $11 \times 11 = 121$ 

$$\sqrt{50}$$
 is between  $\boxed{7}$  and  $\boxed{8}$  \*  $\sqrt{666}$  is between  $\boxed{25}$  and  $\boxed{26}$ 

$$\sqrt{190}$$
 is between  $\boxed{13}$  and  $\boxed{14}$   $\sqrt{170}$  is between  $\boxed{13}$  and  $\boxed{14}$ 

$$\sqrt{6}$$
 is between 2 and 3  $\sqrt{200}$  is between 14 and 15

$$\sqrt{90}$$
 is between  $\boxed{9}$  and  $\boxed{10}$   $\sqrt{48}$  is between  $\boxed{6}$  and  $\boxed{7}$ 

$$\sqrt{255}$$
 is between  $15$  and  $16$   $\sqrt{290}$  is between  $17$  and  $18$ 

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$$\sqrt{500}$$
 is between  $\boxed{22}$  and  $\boxed{23}$   $\sqrt{190}$  is between  $\boxed{3}$  and  $\boxed{14}$ 

$$\sqrt{5}$$
 is between  $\boxed{2}$  and  $\boxed{3}$   $\sqrt{8}$  is between  $\boxed{2}$  and  $\boxed{3}$ 

$$\star$$
  $\sqrt{650}$  is between  $25$  and  $26$   $\sqrt{160}$  is between  $12$  and  $13$ 

$$\sqrt{20}$$
 is between  $\boxed{4}$  and  $\boxed{5}$   $\sqrt{65}$  is between  $\boxed{8}$  and  $\boxed{9}$