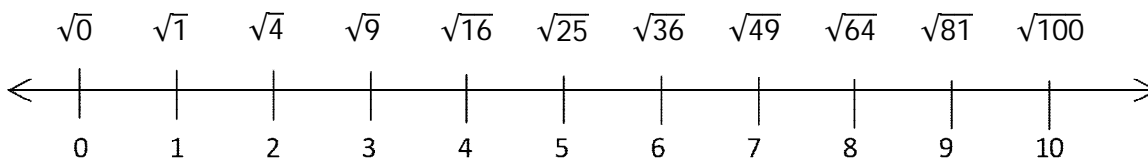
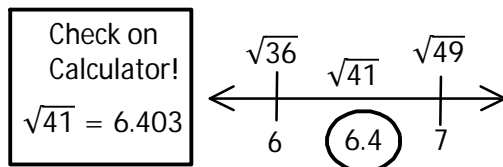


# M8 - 3.1 - Estimating Square/Roots HW

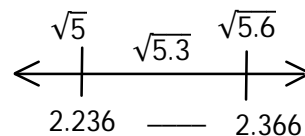
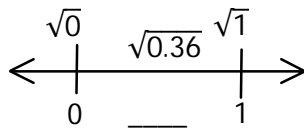
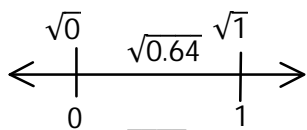
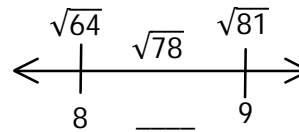
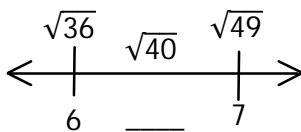
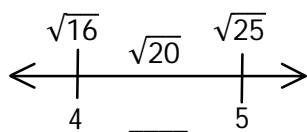
Number Line!



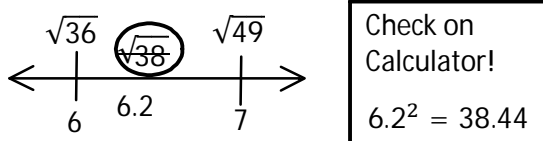
Estimate the square root of 41.



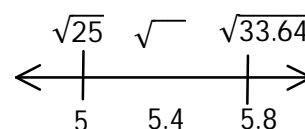
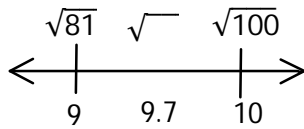
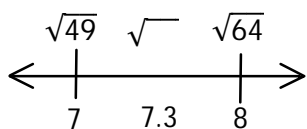
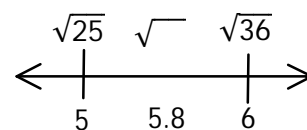
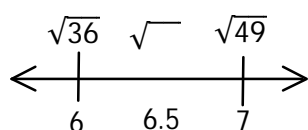
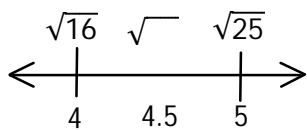
Estimate the square root of the given number to one decimal place.



Estimate the square of 6.2.



Estimate the square of the given number to two decimal places.



## M8 - 3.1 - Estimating Square/Square Roots HW

**Estimate the square root.**

$\sqrt{50} =$

$\sqrt{40} =$

$\sqrt{81} =$

$\sqrt{35} =$

$\sqrt{64} =$

$\sqrt{77} =$

$\sqrt{20} =$

$\sqrt{0.81} =$

**Estimate the following squares.(Whose square root is the number?)**

$3.1^2 =$

$3.5^2 =$

$5.6^2 =$

$8.4^2 =$

$7.6^2 =$

$15^2 =$

$26^2 =$

$2.2^2 =$

# M8 - 3.2 - Solving Roots Prime Factorization HW

Solve using prime factorization.

$$\sqrt{9} =$$

$$\sqrt{25} =$$

$$\sqrt{400}$$

$$\sqrt{64} =$$

$$\sqrt{169} =$$

$$\sqrt{-4} =$$

$$\sqrt[3]{8} =$$

$$\sqrt[3]{64} =$$

$$\sqrt[3]{-64} =$$

$$\begin{aligned}\sqrt{1} &= \\ \sqrt{81} &= \\ \sqrt{100} &= \\ \sqrt{49} &= \end{aligned}$$

$$\begin{aligned}\sqrt{144} &= \\ \sqrt{121} &= \\ \sqrt{-36} &= \\ \sqrt{16} &= \end{aligned}$$

$$\begin{aligned}\sqrt[3]{512} &= \\ \sqrt[3]{27} &= \\ \sqrt[3]{-1} &= \\ \sqrt[3]{1} &= \end{aligned}$$

$$\begin{aligned}\sqrt[3]{343} &= \\ \sqrt[3]{216} &= \\ \sqrt[3]{125} &= \\ \sqrt[3]{729} &= \end{aligned}$$

## M8 - 3.2 - Solving Roots Calculator HW

Solve using your calculator.

$\sqrt{25} =$

$\sqrt{49} =$

$\sqrt{64} =$

$\sqrt{16} =$

$\sqrt{100} =$

$\sqrt{9} =$

$\sqrt{121} =$

$\sqrt{1} =$

$\sqrt{36} =$

$\sqrt{400} =$

$\sqrt{4} =$

$\sqrt{196} =$

$\sqrt{144} =$

$\sqrt{256} =$

$\sqrt{81} =$

$\sqrt{225} =$

$\sqrt{324} =$

$\sqrt{169} =$

$\sqrt{784} =$

$\sqrt{484} =$

$\sqrt{676} =$

$\sqrt{576} =$

$\sqrt{729} =$

$\sqrt{529} =$

$\sqrt{361} =$

$\sqrt{289} =$

$\sqrt{625} =$

$\sqrt{441} =$

Solve using your calculator.

$\sqrt[3]{8} =$

$\sqrt[3]{729} =$

$\sqrt[3]{27} =$

$\sqrt[3]{64} =$

$\sqrt[3]{216} =$

$\sqrt[3]{1} =$

$\sqrt[3]{343} =$

$\sqrt[3]{125} =$

$\sqrt[3]{512} =$

$\sqrt[3]{8000} =$

$\sqrt[3]{2744} =$

$\sqrt[3]{1331} =$

$\sqrt[3]{13824} =$

$\sqrt[3]{10648} =$

$\sqrt[3]{12167} =$

$\sqrt[3]{6859} =$

$\sqrt[3]{1728} =$

$\sqrt[3]{9261} =$

$\sqrt[3]{4096} =$

$\sqrt[3]{3375} =$

$\sqrt[3]{5832} =$

$\sqrt[3]{21952} =$

$\sqrt[3]{17576} =$

$\sqrt[3]{19683} =$

$\sqrt[3]{2197} =$

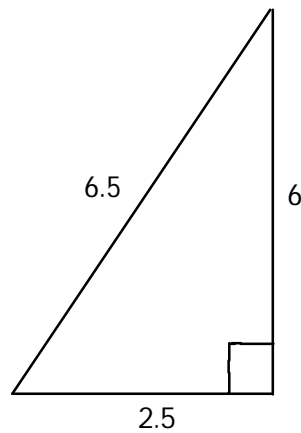
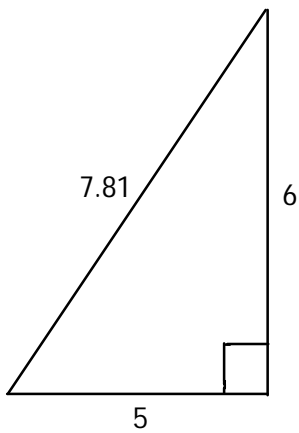
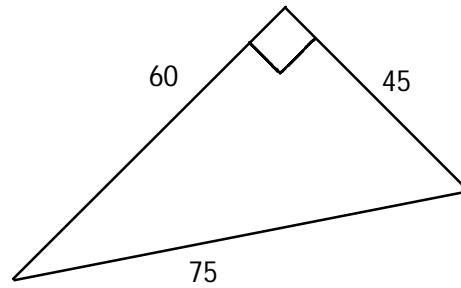
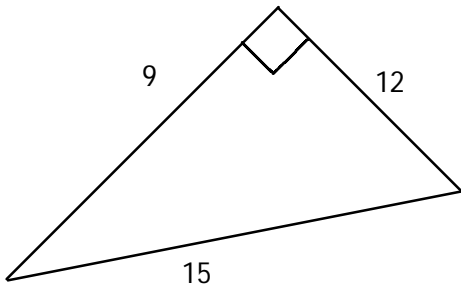
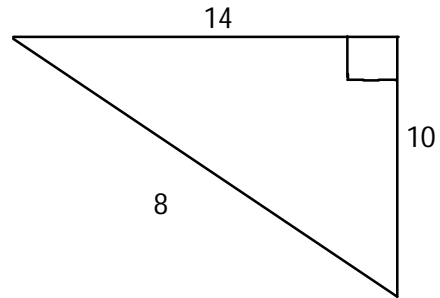
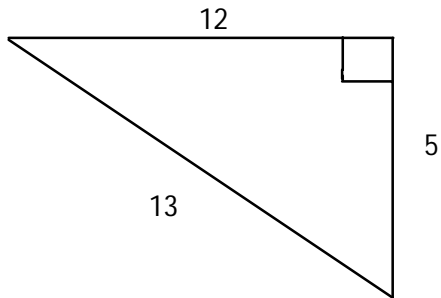
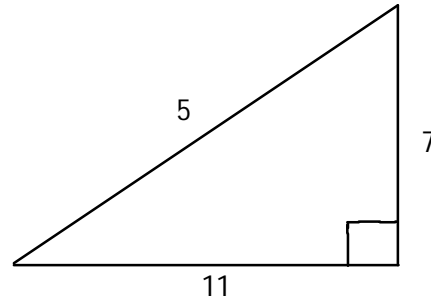
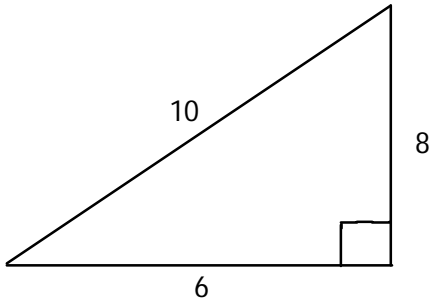
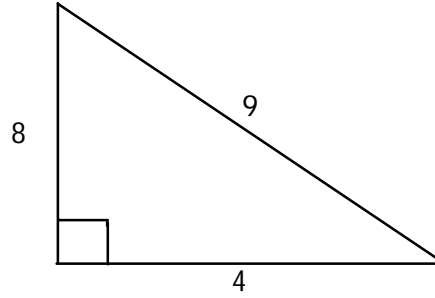
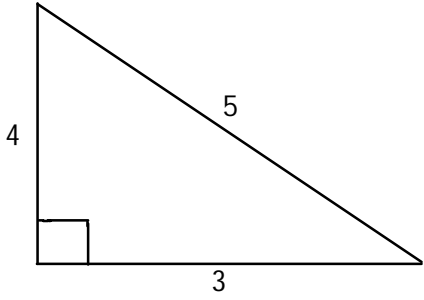
$\sqrt[3]{4913} =$

$\sqrt[3]{15625} =$

$\sqrt[3]{1000} =$

# M8 - 3.3 - Identifying $a$ , $b$ and $c$ HW

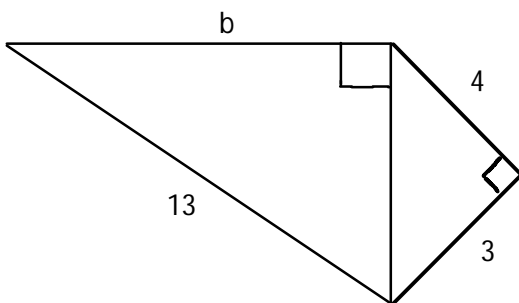
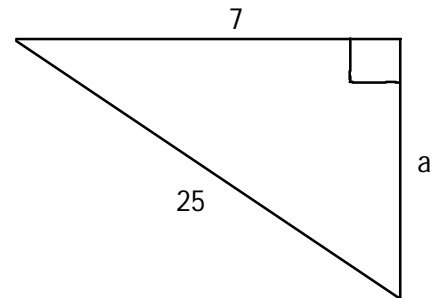
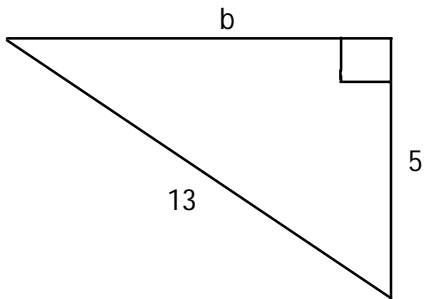
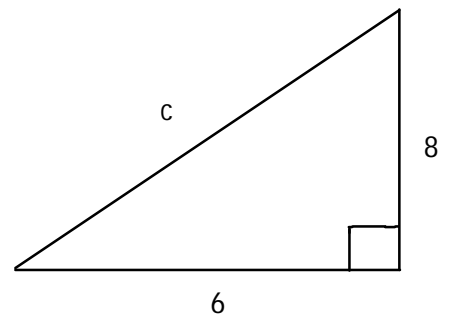
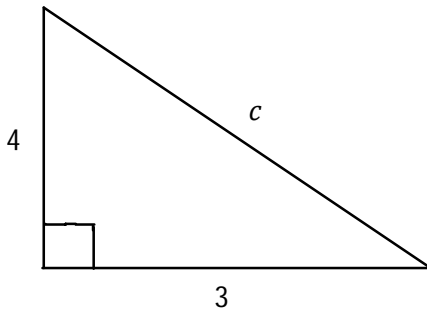
Label the triangle  $a$ ,  $b$ ,  $c$ , appropriately.



# M8 - 3.3 - Pythagoras' Theorem HW

Using Pythagoras' Theorem, find the missing side.

*Pythagoras' Theorem:  $a^2 + b^2 = c^2$*



# M8 - 3.3 - Pythagoras' Theorem (Calc) HW

Using Pythagoras' Theorem, find the missing side.

*Pythagoras' Theorem:  $a^2 + b^2 = c^2$*

