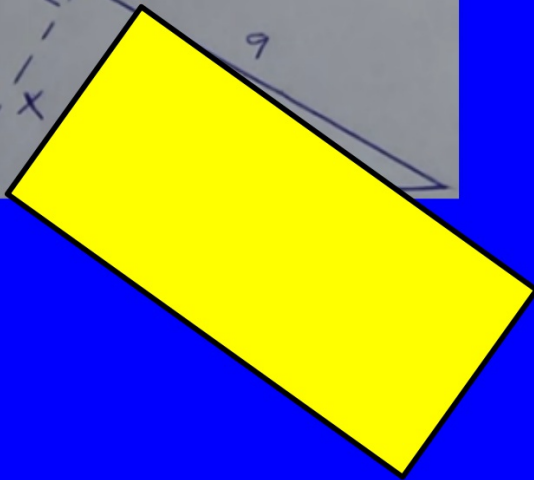
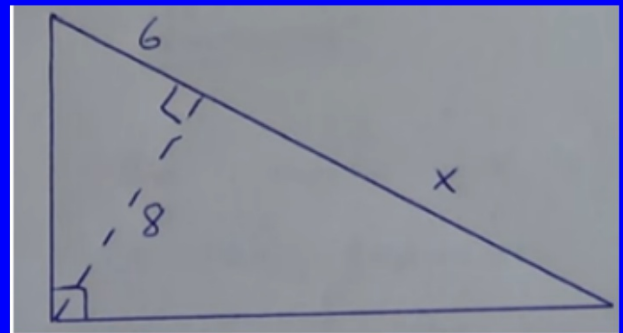
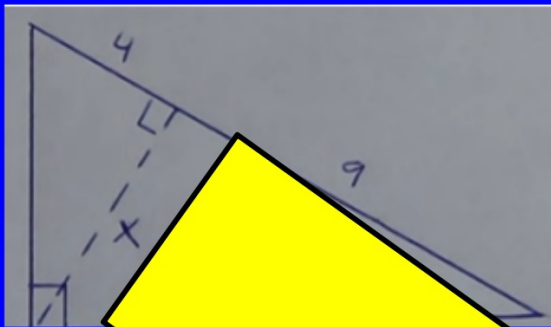




Do Now

Take out your homework

Calculators / color pencils



Check In!

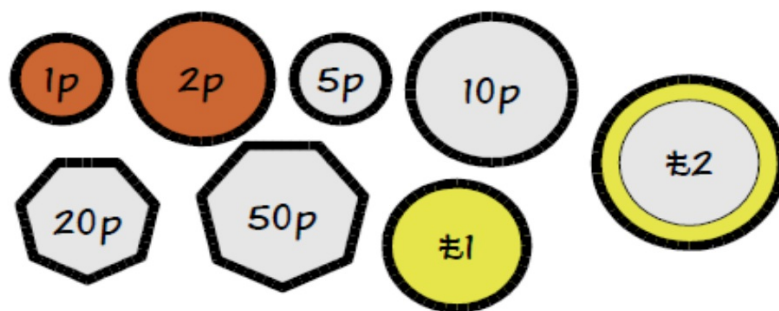
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**Coin of the Realm**

---

☆ 23

**These are the coins commonly  
used in Britain today**



**What is the **fewest** number of  
coins you need to make  
(a) 83p (b) £1.34 (c) £5.27?**

## Agenda!

1. Revisit yesterday's topic (Pythagorean Theorem & Similarity)
2. Homework questions
3. Finish yesterday's independent practice.

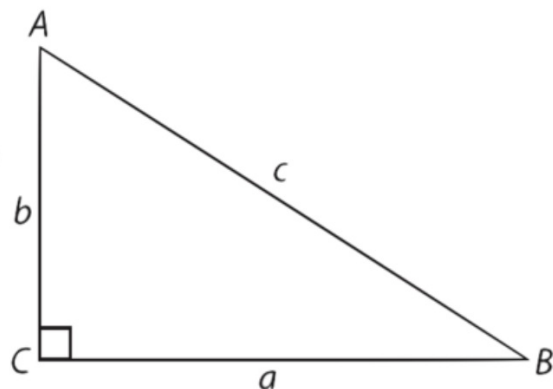


## Key Concepts, *continued*

### Theorem

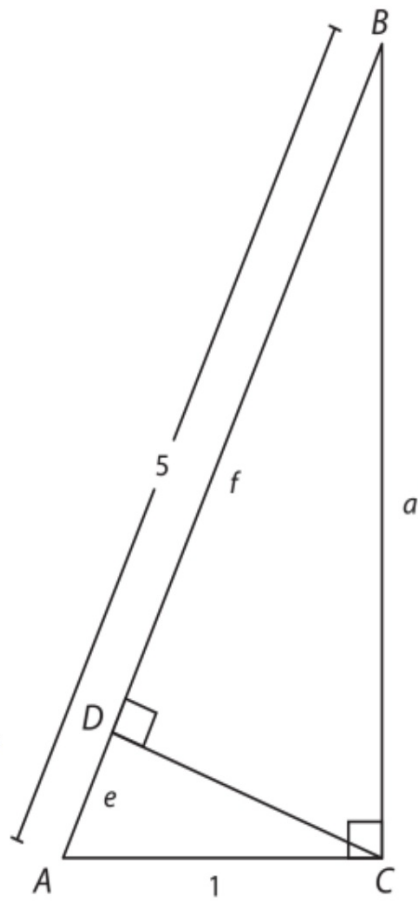
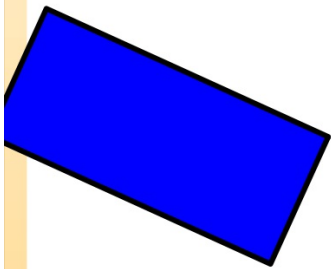
#### Pythagorean Theorem

The sum of the squares of the lengths of the legs ( $a$  and  $b$ ) of a right triangle is equal to the square of the length of the hypotenuse ( $c$ ).



$$a^2 + b^2 = c^2$$

5.



## Homework Questions?

## Independent Practice

- Go to Google Classroom. Click on In Class Activity 05/02/17 #6-9
- You have **30 minutes**.
- You may work with **a partner**.
- Once you're finished, raise your hand and let Mr. Kim know.

### Expectations:

- 30 minutes.
- Finish the assignments in time.
- Use your notes.



## IXL

- Get an IXL sheet. You have three skills to master.
- You have **till rest of the class.**
- Go to **10th Grade Geometry.**
  
- Login: Username: kim\_math\_2  
Password: kim34

### Expectations:

- Rest of the class.
- Finish all three.
- Use your notes.
- Individual.





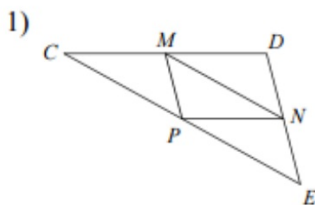


## Do Now

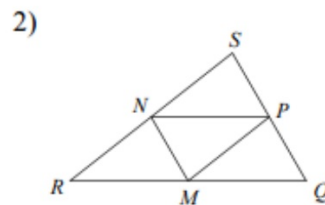
Calculators / Guided Notes  
/ 3 different color pencils



In each triangle, M, N, and P are the midpoints of the sides. Name a segment parallel to the one given.

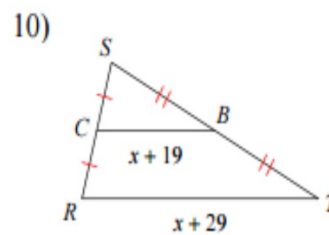
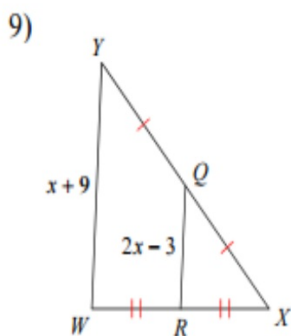


$\overline{CD} \parallel \underline{\hspace{1cm}}$



$\underline{\hspace{1cm}} \parallel \overline{QS}$

Solve for  $x$ .



## **Agenda!**

- 1. Review Pythagorean Theorem and apply it with similarity.**
- 2. Independent Practice**

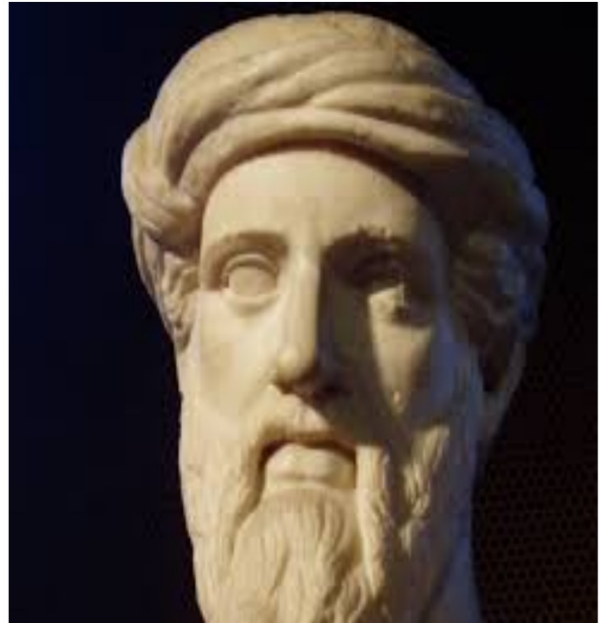




## **PYTHAGORAS**

Interesting facts:

- A cult leader
- First person to refer himself as a "philosopher"
- "Discovered" Pythagorean Theorem.

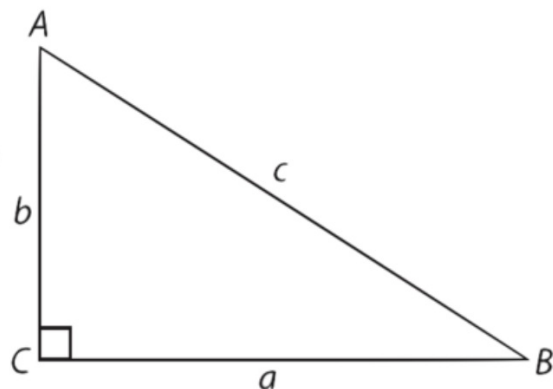


## Key Concepts, *continued*

### Theorem

#### Pythagorean Theorem

The sum of the squares of the lengths of the legs ( $a$  and  $b$ ) of a right triangle is equal to the square of the length of the hypotenuse ( $c$ ).



$$a^2 + b^2 = c^2$$

## Key Concepts

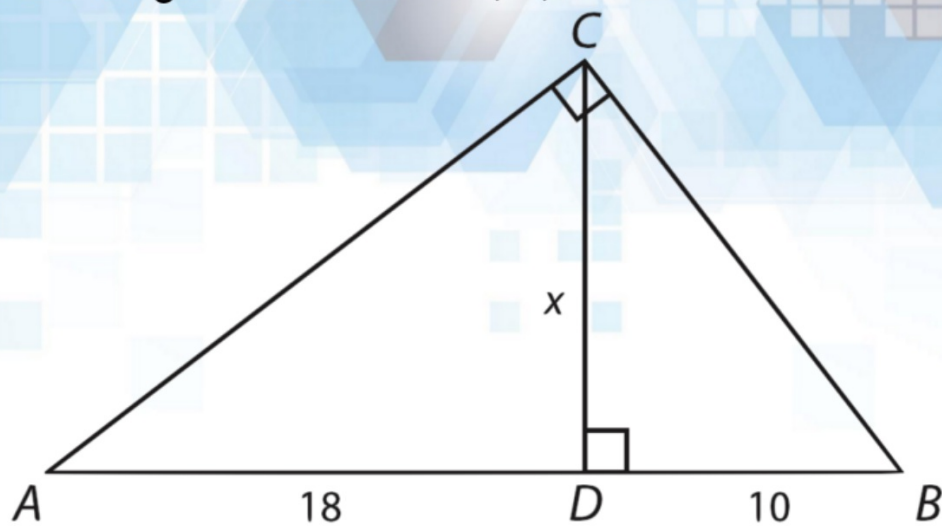
### The Pythagorean Theorem

- The Pythagorean Theorem is often used to find the lengths of the sides of a right triangle, a triangle that includes one  $90^\circ$  angle.

## Guided Practice

### Example 2

Find the length of the altitude,  $x$ , of  $\triangle ABC$ .





## Guided Practice: Example 2, *continued*

### 3. Summarize your findings.

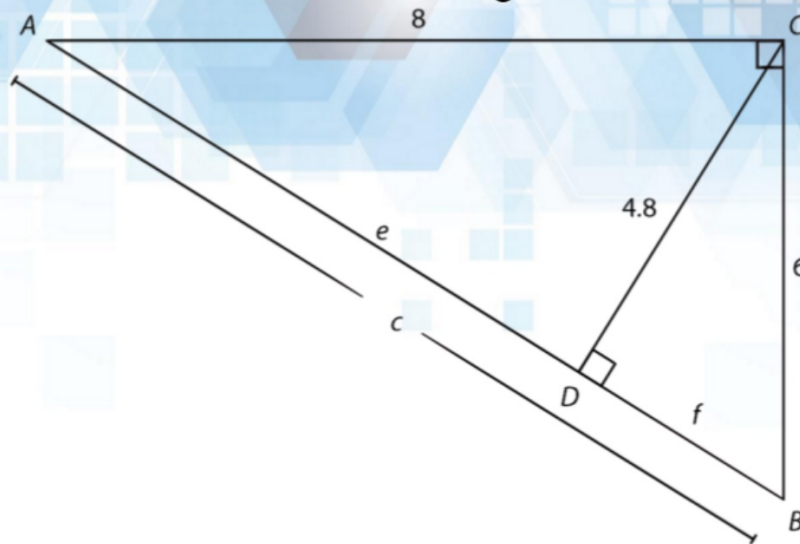
The length of the altitude,  $x$ , of  $\triangle ABC$  is  $6\sqrt{5}$  units, or approximately 13.4 units.



## Guided Practice

### Example 3

Find the unknown values in the figure.





## Guided Practice: Example 3, *continued*

### 5. Summarize your findings.

The length of  $c$  is 10 units.

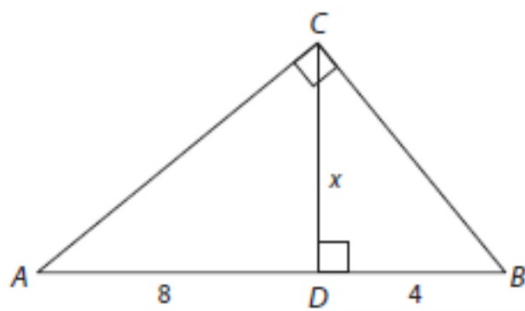
The length of  $e$  is 6.4 units.

The length of  $f$  is 3.6 units.

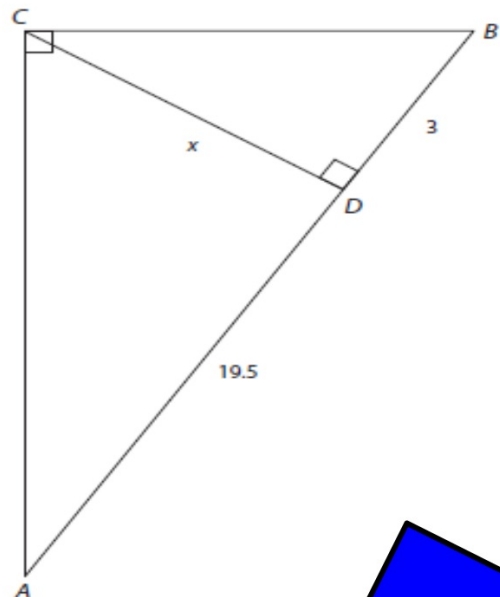


Find the unknown length(s) in each figure.

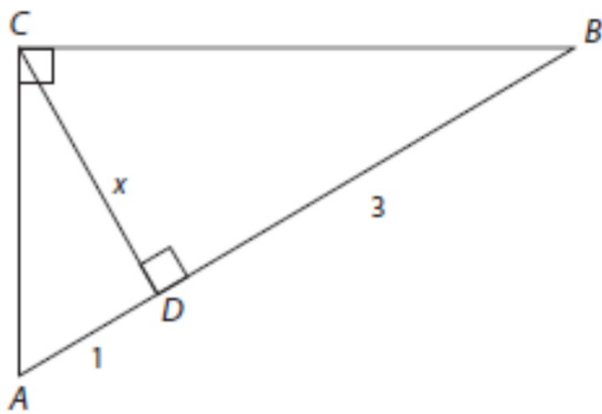
1.



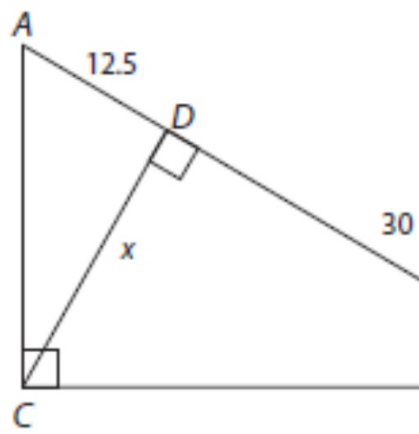
2.



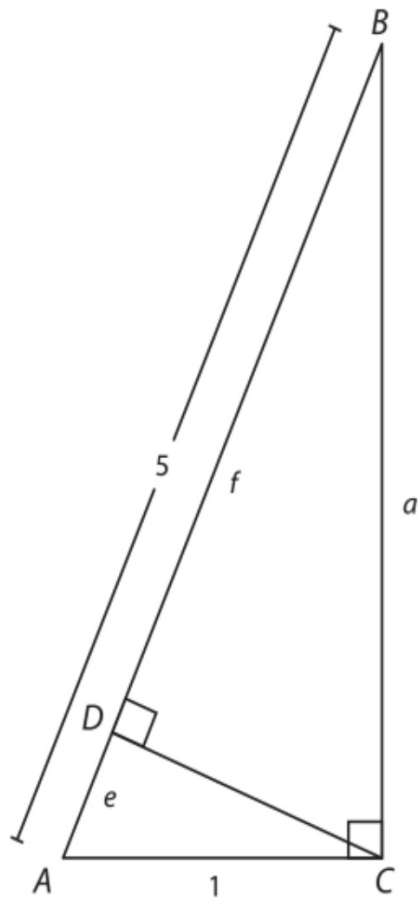
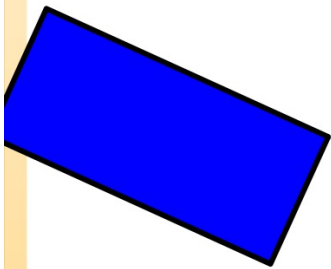
3.



4.



5.



## Independent Practice

- Go to Google Classroom. Click on In Class Activity 05/02/17
- Only do #2 and #6-9
- You have 30 minutes.
- You may work with a partner.
- Once you're finished, raise your hand and let Mr. Kim know.

### Expectations:

- 30 minutes.
- Finish the assignments in time.
- Use your notes.



## IXL

- Get an IXL sheet. You have three skills to master.
- You have **till rest of the class.**
- Go to **10th Grade Geometry.**
  
- Login: Username: kim\_math\_2  
Password: kim34

### Expectations:

- Rest of the class.
- Finish all three.
- Use your notes.
- Individual.



## Review Activity for the Test (FRIDAY)

1. This **Review Activity** is at **Google Classroom**.
2. You have **20 minutes** to complete this activity. Stay on task - this will **GREATLY** benefit you on the test day (Friday)
3. Once you're finished, raise your hand and let Mr.Kim check.
4. Once Mr. Kim has checked your flashcards, you may start on your HW (**Reivew Packet**) - found **@ Google Classroom**.

### Expectations:

- Individual / Independent work.
- Work at a minimum volume.
- Raise your hand if you have a question.
- I expect you to work hard and finish!
- Keep your flashcards!!!



