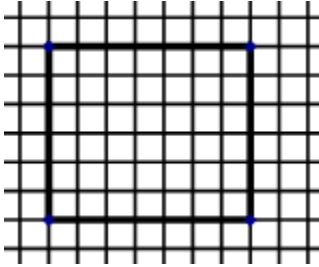
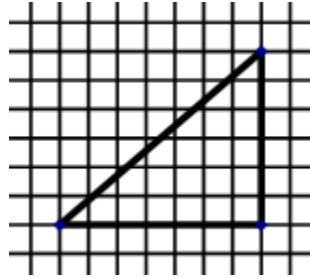


Unit 6 Day 6 - Areas of Right Triangles Classwork

1. Find the area of this rectangle:



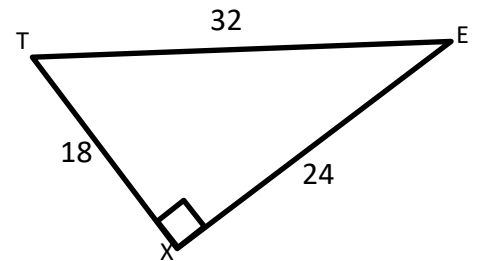
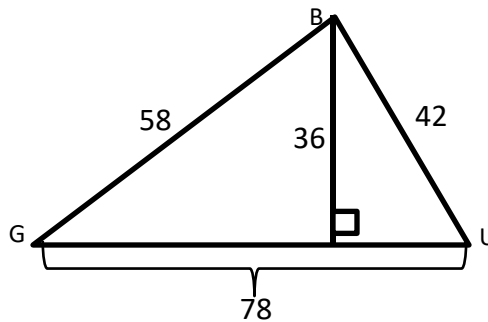
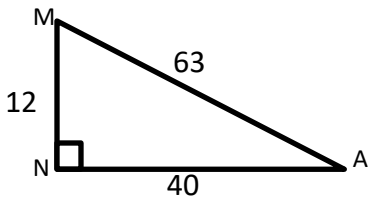
2. Find the area of this triangle:



3. a) What formula is used to find the area of a triangle?

b) What is the relationship between the base and the height of a triangle?

4. Identify the height and base for the triangles below. Label them as h and b .



5. Find the area of each triangle.

$\triangle MAN$:

$\triangle BUG$:

$\triangle TEX$:

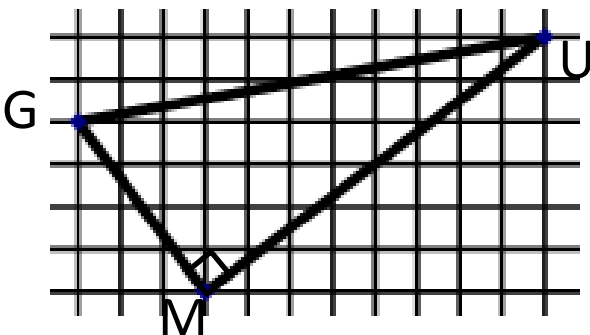
6. To find the area of a triangle you need to find a height perpendicular to one of the sides (base.) In a right triangle, the base and height are the two sides that form the right angle.

Use the Pythagorean Theorem to find the length of each side of the triangle.

GU =

UM =

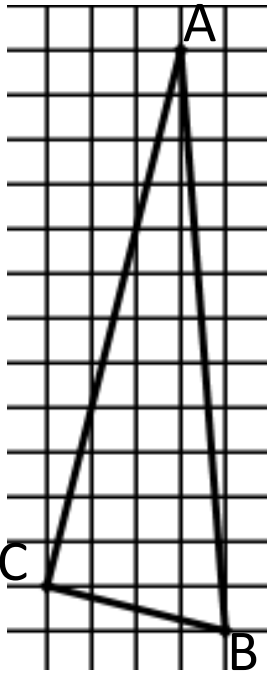
MG =



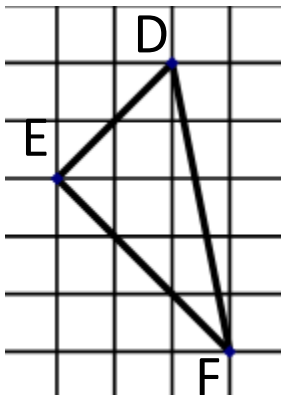
Which side could be used as the base?

Which side could be used as the height?

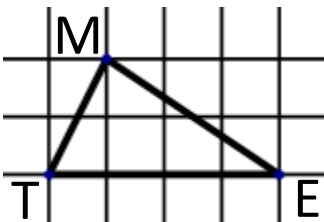
What is the exact area of this triangle?



7. a) Find the slope of \overline{AB} :
 b) Find the slope of \overline{BC} :
 c) Find the slope of \overline{AC} :
 d) Is $\triangle ABC$ a right triangle?
 e) Which side of $\triangle ABC$ could be used as the base?
 f) Use the Pythagorean Theorem to find the length of that side:
 g) Which side of $\triangle ABC$ could be used as the height?
 h) Use the Pythagorean Theorem to find the length of that side:
 i) Find the exact area of $\triangle ABC$:



8. a) Find the slope of \overline{ED} :
 b) Find the slope of \overline{DF} :
 c) Find the slope of \overline{EF} :
 d) Is $\triangle DEF$ a right triangle?
 e) Which side of $\triangle DEF$ could be used as the base?
 f) Find the length of that side:
 g) Which side of $\triangle DEF$ could be used as the height?
 h) Find the length of that side:
 i) Find the area of $\triangle DEF$:



9. a) Find the slope of \overline{ME} :
 b) Find the slope of \overline{ET} :
 c) Find the slope of \overline{TM} :
 d) Is $\triangle MET$ a right triangle?
 e) Find the area of $\triangle MET$: