

# MENU SIDE DISH

Name

Key

Date

## IT'S THE INSIDE!

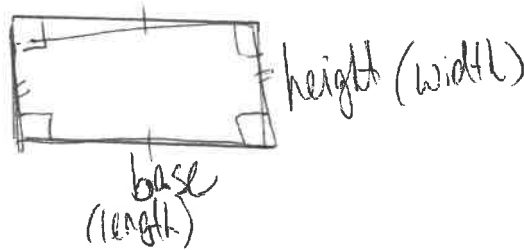
1. How do you determine the area of a rectangle?

$$A = l \times w$$

or

$$A = b \times h$$

2. Draw a rectangle below and label the base and height (or the length and width.)

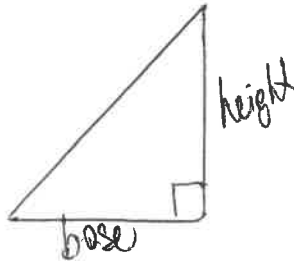


3. How do you determine the area of a triangle?

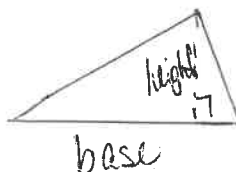
$$A = \frac{1}{2} \times \text{base} \times \text{height}$$

Determine the area of the surrounding rectangle and take half of its area.

4. Draw a right triangle below and label the base and height.

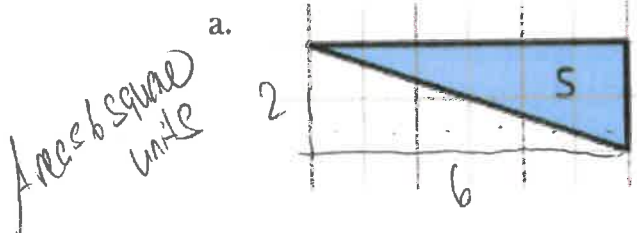


5. Draw a triangle below that is **not a right triangle** and label the base and height.



**MENU SIDE DISH**

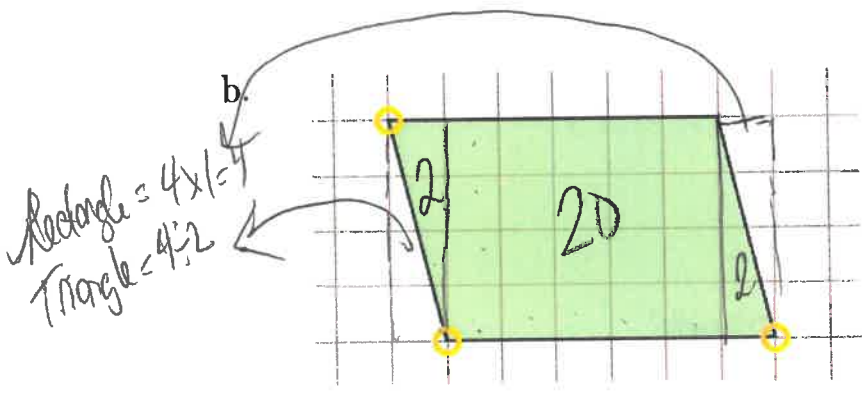
6. Find the area of the shaded figures below. Each square on the grid represents one square unit. Convince me by creating a proof of your solution by using drawings, numbers, arrows, calculations, and/or other features that make your reasoning clear and convincing.



Area = 6 square units

What type of figure is this?  
Right triangle

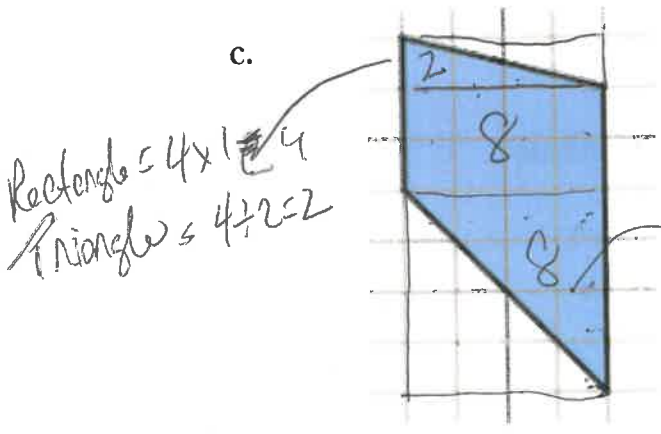
Area of Rectangle =  $2 \times 6 = 12$   
Triangle =  $12 \div 2 = 6$



Rectangle =  $4 \times 4 = 16$   
Triangle =  $4 \div 2 = 2$

What type of figure is this?  
Parallelogram

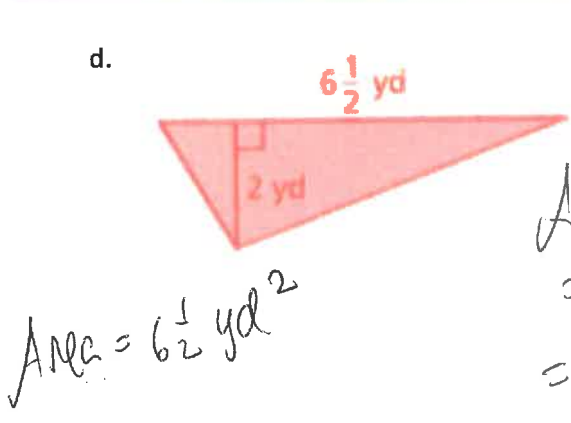
$20 + 2 + 2 = \text{Total Area}$   
 $24 = \text{Area}$   
Square units



Rectangle =  $4 \times 1 = 4$   
Triangle =  $4 \div 2 = 2$

What type of figure is this?  
Trapezoid

Rectangle =  $4 \times 4 = 16$   
Triangle =  $16 \div 2 = 8$   
Area =  $2 + 8 + 8 = 18$  square units



Area =  $6 \frac{1}{2} \text{ yd}^2$

What type of figure is this?  
Triangle

$A = \frac{1}{2} \times \text{base} \times \text{height}$   
 $= \frac{1}{2} \times 6 \frac{1}{2} \times 2$   
 $= \frac{1}{2} \times \frac{13}{2} \times \frac{2}{1} = \frac{13}{2} = 6 \frac{1}{2}$