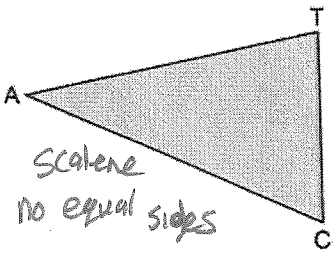
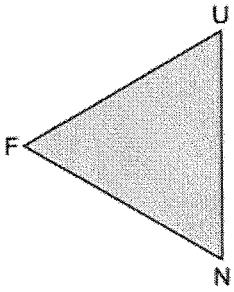
Math 6 Unit 6 Practice Test NAME: Key

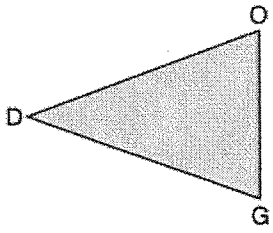
1) Name each triangle as scalene, isosceles, or equilateral.
Explain your choice each time.



Scalene
no equal sides



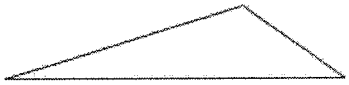
Equilateral
- all sides + angles equal



Isosceles 2 sides the same

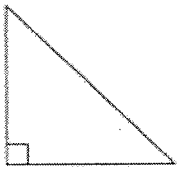
2) Name each triangle as an acute, a right, or an obtuse triangle.

a)



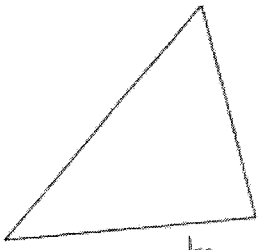
obtuse

b)



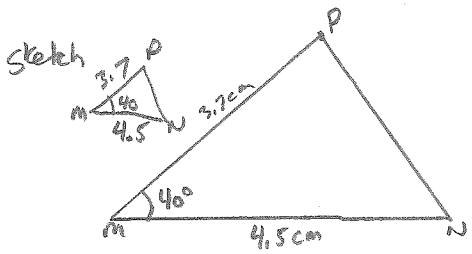
right

c)



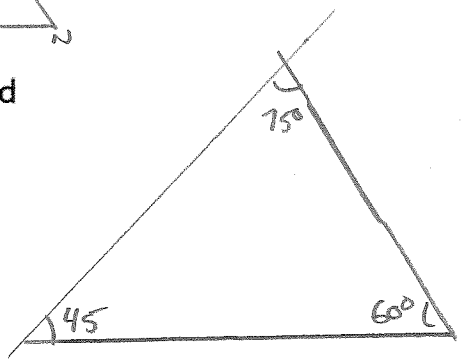
acute

3) Construct scalene △MNP.
The length of MN is 4.5 cm.
The measure of ∠M is 40°.
The length of MP is 3.7 cm.



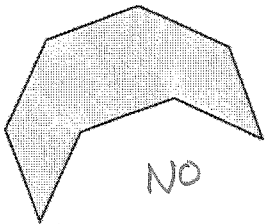
4) Construct a triangle that has one angle that measures 60° and one angle that measures 45°.

a) What is the measure of the third angle? 75°
b) What kind of triangle did you make? Scalene
How do you know? all angles different
c) How else can you name the triangle?
acute



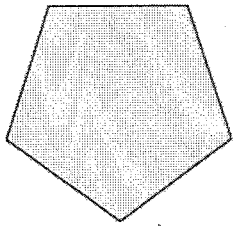
5) Is each polygon regular? How do you know?

a)



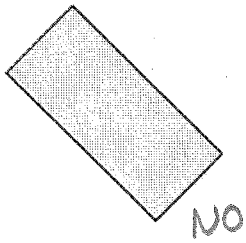
NO
Different angles

b)



Yes
all sides equal
all angles equal

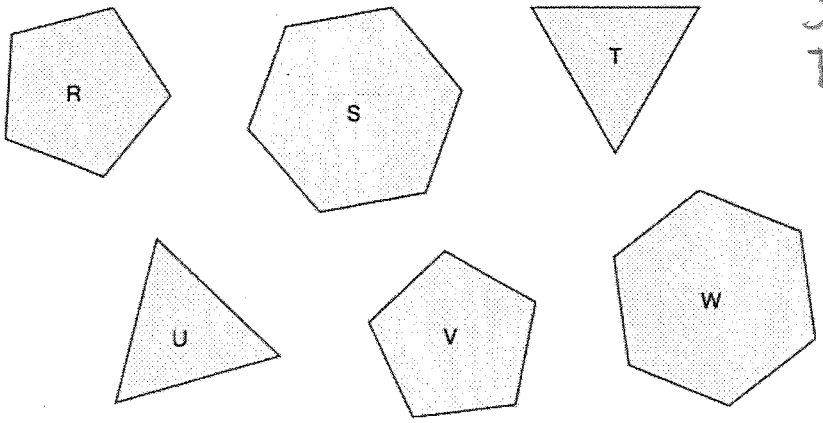
c)



NO
different length sides

6)

Which of these polygons are congruent?
How can you tell?



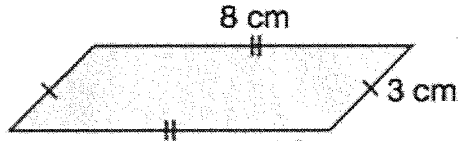
R+V
S+W
T+U

I traced one shape and matched it to its partner
or
I measured each angle and side length and they were the same for each pair

7)

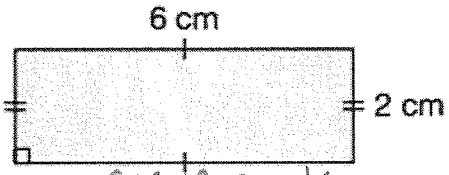
Find the perimeter of each polygon.

a)



8+8+3+3 = 22 cm
or 2(8+3) = 22 cm

b)



6+6+2+2 = 16 cm or 2(6+2) = 16 cm

8)

Copy and complete this chart.

Rectangle	Length (cm)	Width (cm)	Area (cm^2)
A	7	5	? 35
B	? 2.1	6	12.6
C	3	? 4.5	13.5
D	5.3	7	? 37.1

35
2.1
4.5
37.1

9) A rectangular prism box has a volume of 120 cm3. What measures might it have for length, width, and height? What would fit inside your box?

3cm x 4cm x 10cm (3x4x10 = 120)
a Bracelet might fit inside or some hedgehog chocolates

or 20cm x 2cm x 3cm
a fancy pen or pencil might fit inside

other measures are possible.