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STUDENT HANDOUTS

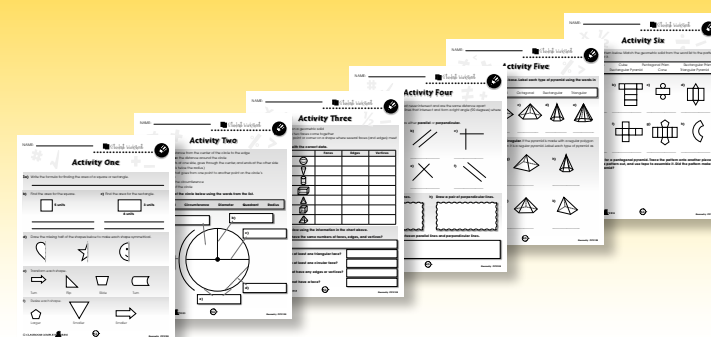
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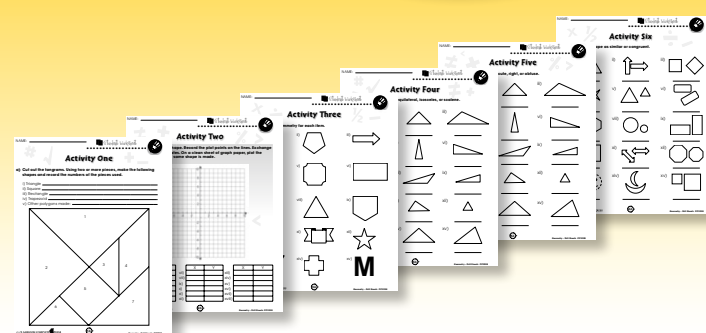
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Task Sheet 4

Triangles

4) All triangles have three sides and three angles. The angles have a sum of 180 degrees. Triangles can be classified by their sides.

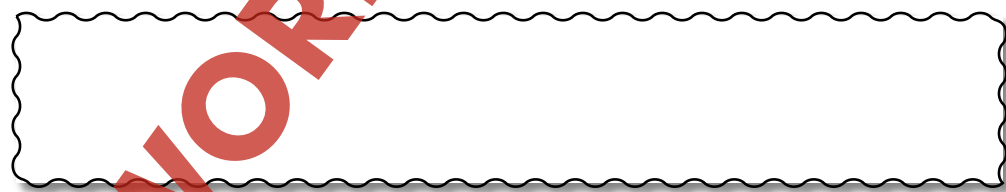
- **Equilateral:** all sides are the same length
- **Isosceles:** two sides are the same length
- **Scalene:** all sides are different lengths



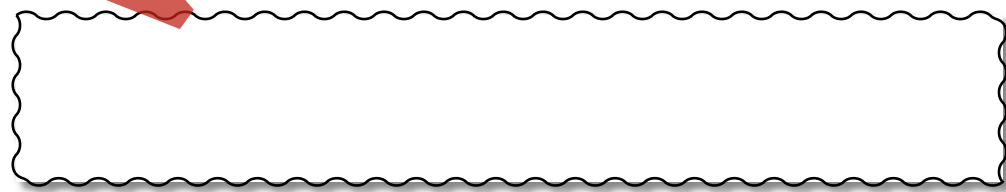
a) Label each triangle as **equilateral, isosceles, or scalene.**

i. _____ ii. _____ iii. _____ iv. _____
v. _____ vi. _____ vii. _____ viii. _____

b) Draw five different scalene triangles.



c) Draw five different isosceles triangles.



Task Sheet 8

Symmetry

8) A shape that can be folded in half — horizontally, vertically, or diagonally — and have both halves match exactly is symmetrical. The fold line is called the line of symmetry.



Is the shape symmetrical? Write **yes** or **no** on the line.

a) _____
b) _____
c) _____
d) _____
e) _____

Some shapes have more than one line of symmetry. Draw two different lines of symmetry for each shape.

f) _____ g) _____ h) _____
i) _____ j) _____ k) _____

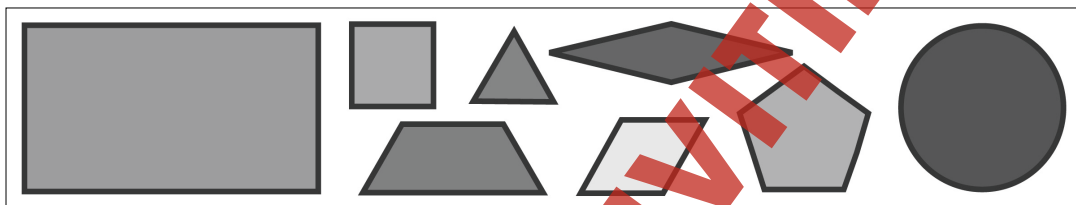
Explore With Technology



Use your computer to make a face symmetrical. For example, take your picture and use the Paint program to cut the face in half; make a copy of the remaining half and flip it to make a whole face. Does the face still look like yours? Why?



8a) Using different combinations of pattern blocks, how many hexagons can you make? Trace the pattern blocks used to make each hexagon.

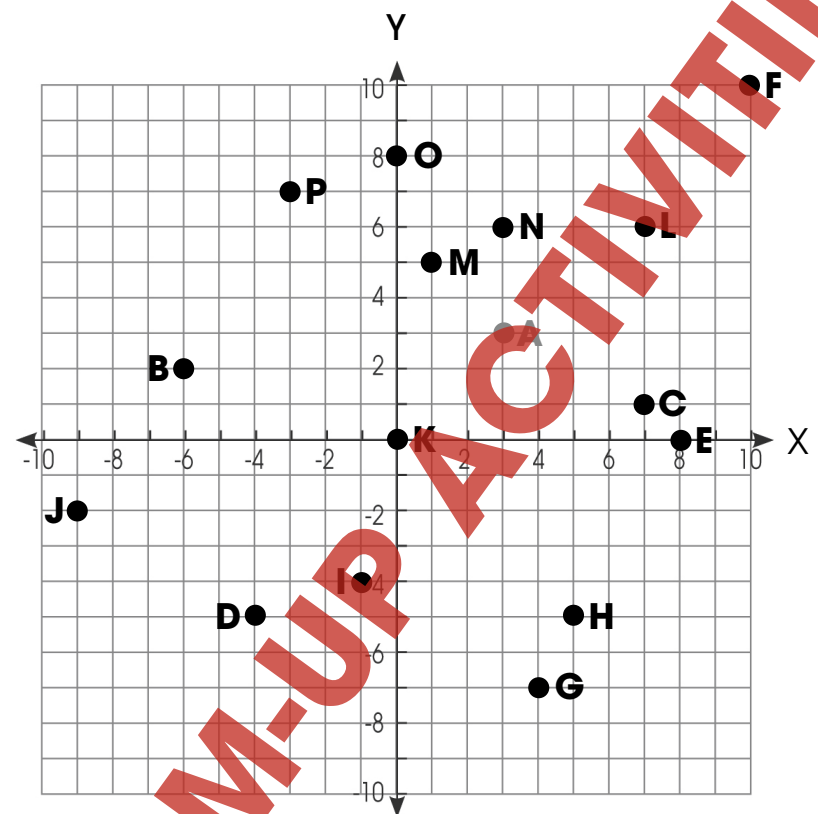


Ex: **6 triangles**

I drew _____ different hexagons.



13a) Write the coordinates for the following points.



Ex:

A	X	Y	E	X	Y	I	X	Y	M	X	Y
B			F			J			N		
C			G			K			O		
D			H			L			P		



Drill Sheet 1

Is it a polygon? Circle YES or NO.

a) YES NO b) YES NO c) YES NO d) YES NO

e) YES NO f) YES NO g) YES NO h) YES NO

Circle the regular polygons.

i) j) k) l) m) n) o) p)



Review A

a) Name each shape.

i) _____ ii) _____ iii) _____

b) Name each solid figure.

i) _____ ii) _____ iii) _____

c) Identify the faces on each solid figure.

i) _____ ii) _____ iii) _____

d) Label the parts of the pyramid.

i) _____
ii) _____
iii) _____
iv) _____



Review B

a) Identify each triangle in two ways.

i) _____
ii) _____

b) Measure each angle.

i) _____ ii) _____ iii) _____

c) Describe each angle as acute, right, or obtuse.

i) _____ ii) _____ iii) _____

d) Make a hexagon in three different ways.

i) _____ ii) _____ iii) _____

e) Transform the shape as indicated.

i) Reflection ii) Rotation iii) Enlargement

Polyhedrons and Platonic Solids

Poly means "many" and hedron means "face". A polyhedron is a solid with only flat faces.

Circle the solid shapes that are polyhedrons.



There are five platonic solids. To figure out if a shape is a platonic solid, add the number of faces (F) and vertices (V), and subtract the number of edges (E). If the answer is two, the figure is a platonic solid. $F + V - E = 2$

Shape	Faces (F)	Vertices (V)	Edges (E)	F+V-E =	Is it a Platonic Solid?
Dodecahedron					
Octahedron					
Cube					
Tetrahedron (Triangular Pyramid)					
Icosahedron					

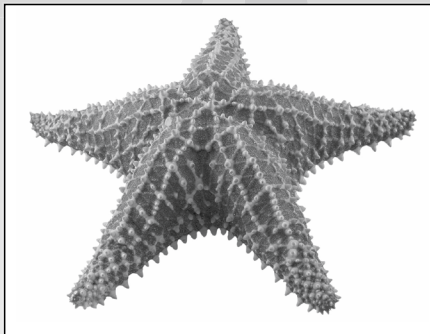
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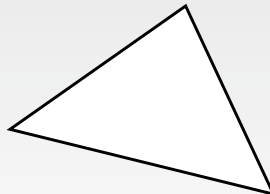
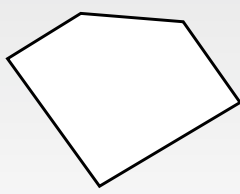
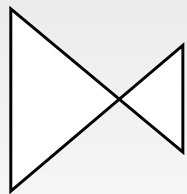
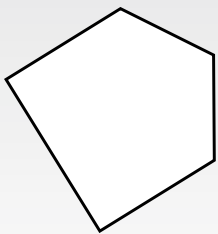
Task Sheet 3

Polygons

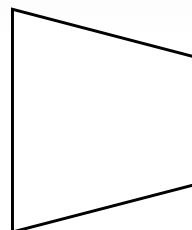
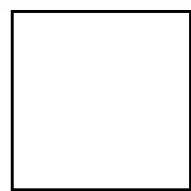
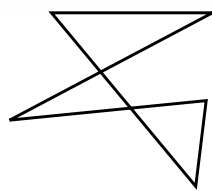
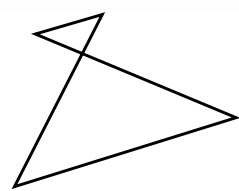
3) A polygon can be simple or complex. A simple polygon has only one boundary and its line segments do not cross each other. A complex polygon's line segments do cross each other.



a) Label each polygon as simple or complex.



i. _____ ii. _____ iii. _____ iv. _____



v. _____ vi. _____ vii. _____ viii. _____

b) Draw a simple polygon and a complex polygon.

Simple Polygon

Complex Polygon

3.

- a) i) Simple
- ii) Complex
- iii) Simple
- iv) Simple

4.

- a) i) Equilateral
- ii) Isosceles
- iii) Scalene
- iv) Isosceles
- v) Scalene
- vi) Scalene
- vii) Isosceles
- viii) Equilateral

b) Answers may vary. Triangles should abide by the scalene rule.

c) Answers may vary. Triangles should abide by the isosceles rule.

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5.

- a) Acute
- b) Right
- c) Acute
- d) Obtuse
- e) Right
- f) Acute
- g) Obtuse
- h) Obtuse
- i) Acute

b) Answers may vary. Both polygons should abide by the simple and complex rule.

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6.

a) Rectangle

b) Rhombus

c) Trapezoid

d) Square

e) Answers may vary. Possible answer includes: A kite has four sides. Opposite sides are the same in length. It has one pair of short sides and one pair of long sides.

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7.

a) $1 \times 4 = 4$ square units

b) $4 \times 4 = 16$ square units

c) $3 \times 3 = 9$ square units

d) $8 \times 6 = 48$ square units

e) $8 \times 8 = 64$ square units

f) $4 \times 6 = 24$ square units

g) $8 \times 5 = 40$ square units

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