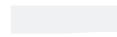


NAME: _____



Activity One



Decomposing Shapes

1a) Divide the rectangle into two triangles.

A large, empty rectangular box with a thin black border, intended for the student to draw a rectangle and divide it into two triangles.

b) Put the two triangles together. How many different shapes can be made with the two triangles? Draw the shapes below.

A large, empty rectangular area with a decorative, wavy black border, intended for the student to draw various shapes formed by combining two triangles.

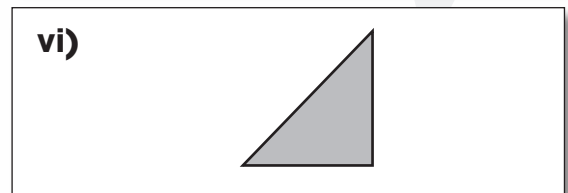
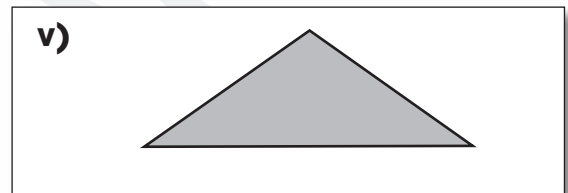
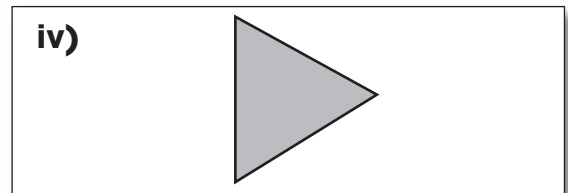
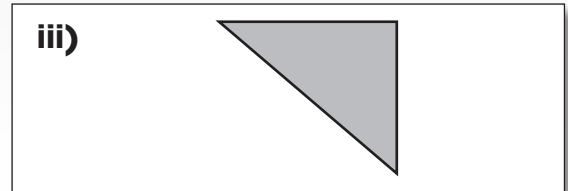
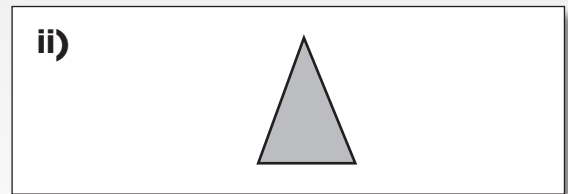
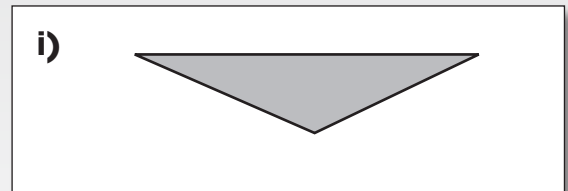
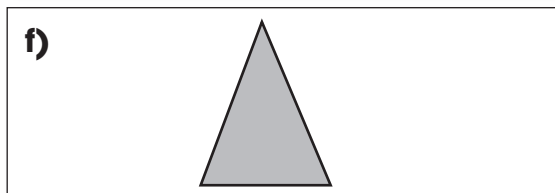
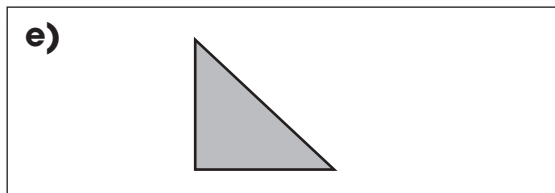
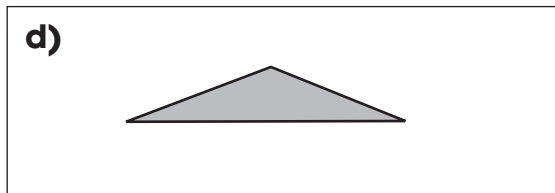
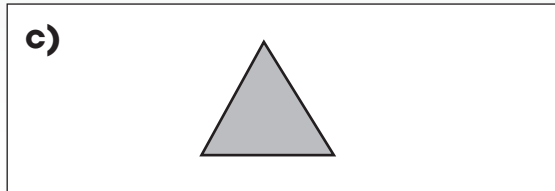
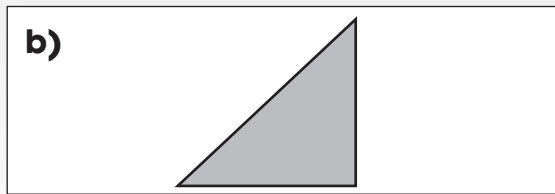
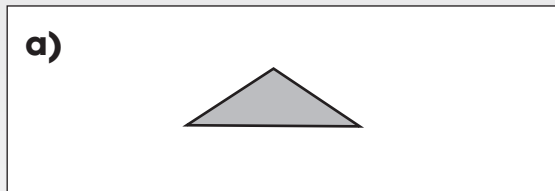


Activity Two

Similar Triangles

2) Two triangles are similar if one is a different size than the other, and that is their only difference. Similar triangles will have the same angles and their sides will be in the same proportion.

Match up the similar triangles by connecting them with a line.



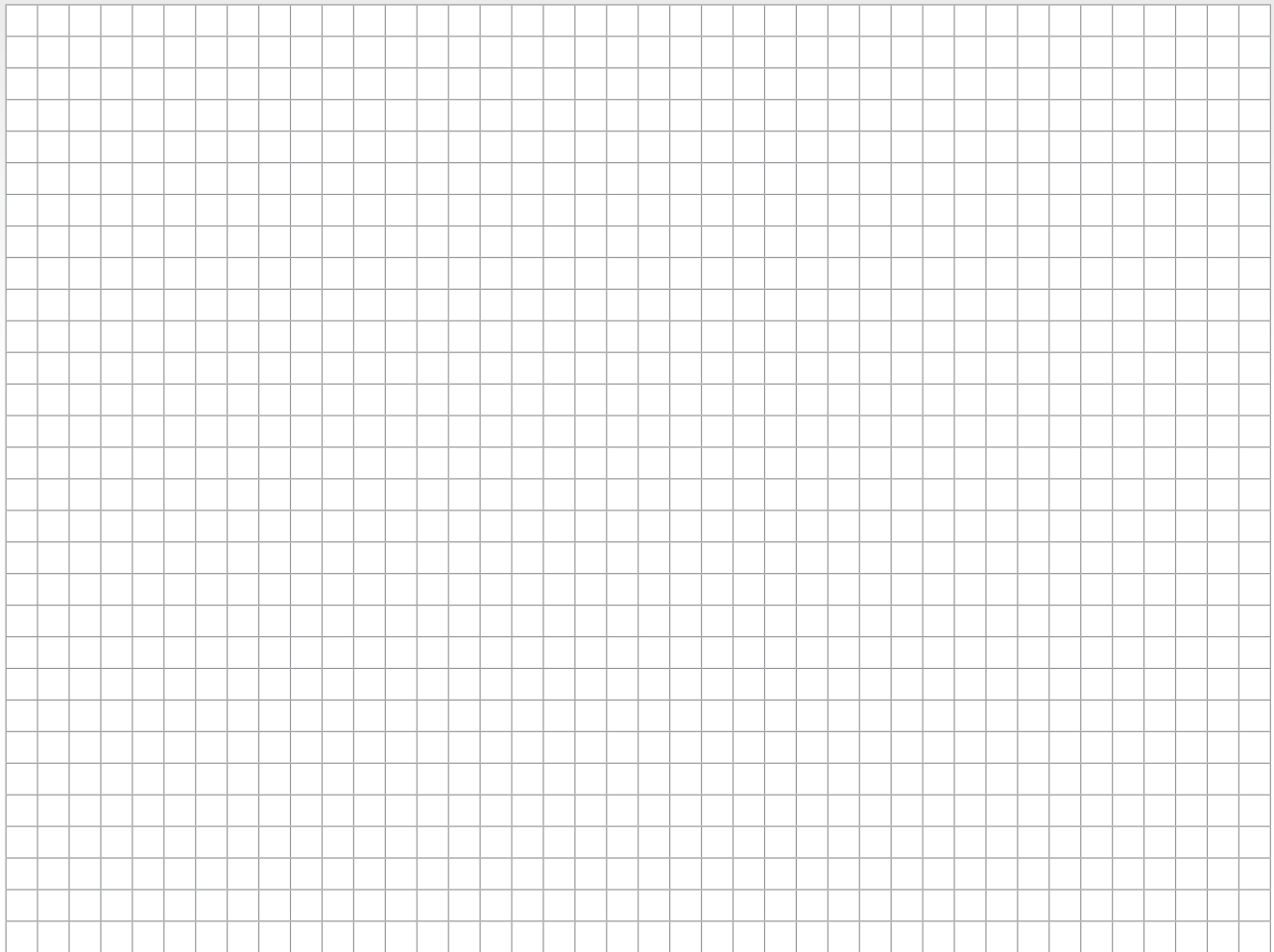
NAME: _____



Activity Three

Making Rectangular Prisms

- 3) Using centimeter or inch cubes, how many rectangular prisms can be made using 24 cubes? Draw the different rectangular prisms in the grid below. What is the volume of each rectangular prism?

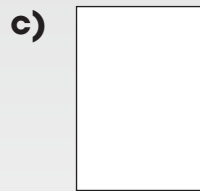
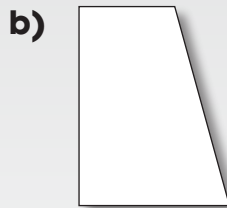


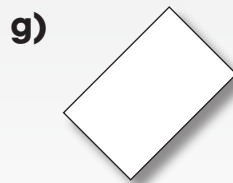
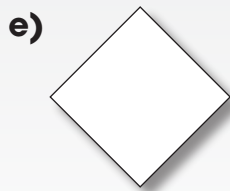


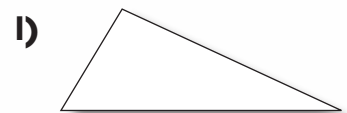
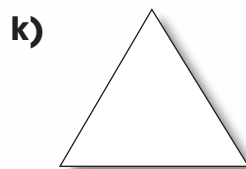
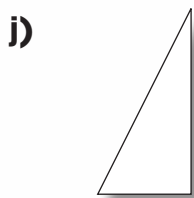
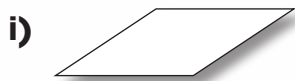
Activity Four

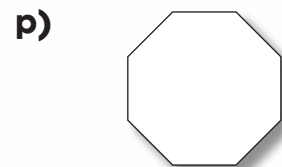
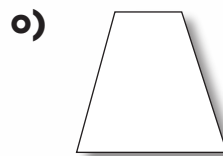
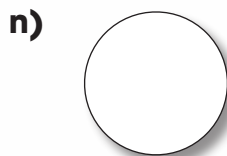
How Many Lines of Symmetry?

4) Trace each shape onto another piece of paper. Cut out and fold each shape. How many lines of symmetry does each shape have?









NAME: _____



Activity Five

Drawing Angles

5a) Use a protractor to draw the following angles.

i) 45°

ii) 115°

iii) 10°

iv) 65°

v) 90°

vi) 135°

vii) 30°

viii) 100°

ix) 180°

b) Which angles are acute angles? _____

c) Which angles are obtuse angles? _____

d) Which angle makes a straight line? _____

NAME: _____



Activity Six

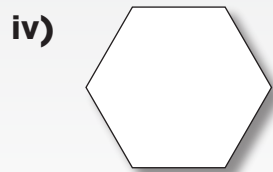
Seeing 90° Angles

6a) Name each shape.



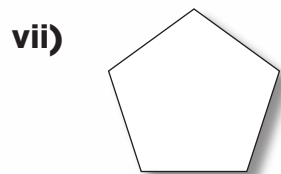


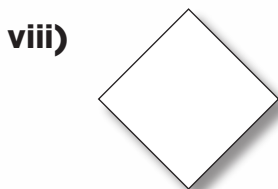


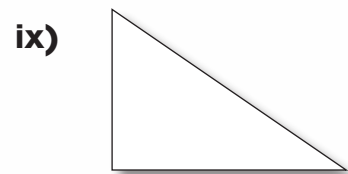












b) Which shapes have at least one 90° angle? _____

c) Which shapes are symmetrical? _____

d) Which shape does not have any angles? _____

1.

Answers may vary. Possible answers include: parallelogram and triangle.

1A

2.

a) v

b) vi

c) iv

d) i

e) iii

f) ii

2A

3.

Answers may vary. Possible answers include:

- $l = 4, w = 3, h = 2;$
- $l = 8, w = 3, h = 1;$
- $l = 12, w = 2, h = 1;$
- $l = 6, w = 2, h = 2;$
- $l = 6, w = 4, h = 1$

The volume of each rectangular prism will be 24 cubic units.

3A

4.

a) 1

b) 0

c) 2

d) 1

e) 4

f) 0

g) 4

h) 1

i) 2

j) 0

k) 3

l) 0

m) 0

n) infinite

o) 1

p) 8

4A

5.

a)

Check to make sure the student drew the appropriate angles.

b) i) 45° , iii) 10° , iv) 65° ,
vii) 30°

c) ii) 115° , vi) 135° ,
viii) 100° , ix) 180°

d) ix) 180°

5A

6.



a) i) Rectangle

ii) Parallelogram

iii) Trapezoid

iv) Hexagon

v) Square

vi) Oval

vii) Pentagon

viii) Rhombus

ix) Right triangle

b) i) Rectangle,
v) Square,
viii) Rhombus,
ix) Right triangle

c) i) Rectangle,
iii) Trapezoid,
iv) Hexagon,
v) Square, vi) Oval,
vii) Pentagon,
viii) Rhombus

d) vi) Oval

6A

(these answers are for the 6 free bonus pages, see page 3 for download instructions)