Y3/4 Shape Unit 1 (34348)

Additional teacher instructions for practice sheets

These notes indicate which practice sheets are most appropriate for which groups.

Day 1 Y3 Symmetry Sheet 1
Working towards ARE / Working at ARE / Greater Depth

Day 1 Y4 Grid symmetry patterns Sheet 2
Working towards ARE

Day 1 Y4 Grid symmetry patterns Sheet 3
Working at ARE / Greater Depth

Day 2 Y3 Odd one out Sheet 1
Working towards ARE / Working at ARE / Greater Depth
Greater Depth complete the Challenge.

Day 2 Y4 Shape properties Sheet 2
Working towards ARE / Working at ARE

Day 2 Y4 Shape properties Sheet 3
Greater Depth

Day 3 Y3 Sorting 2-D shapes Sheets 1 and 2
Working towards ARE / Working at ARE / Greater Depth

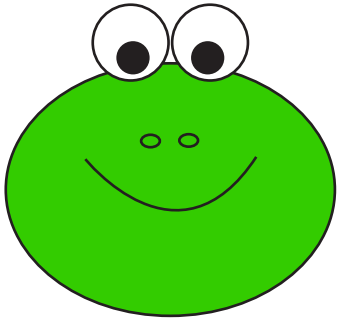
Day 3 Y4 Triangles Sheet 3
Working towards ARE

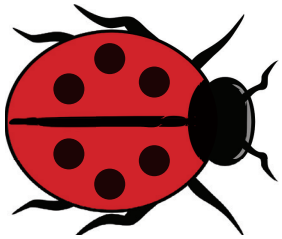
Day 3 Y4 Triangles Sheet 4
Working at ARE / Greater Depth

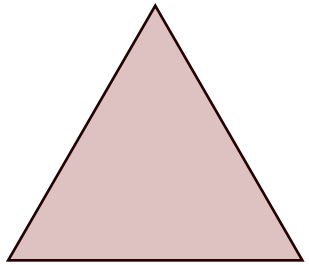
Symmetry

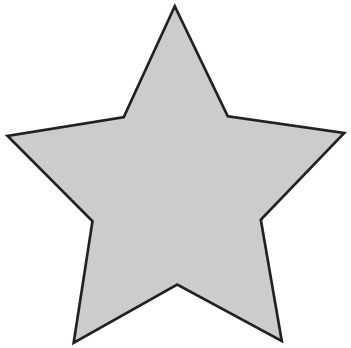
Sheet 1

Draw at least one line of symmetry on these pictures.

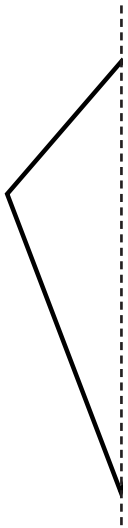


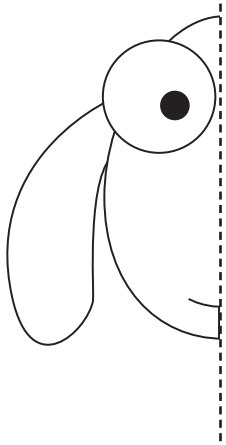


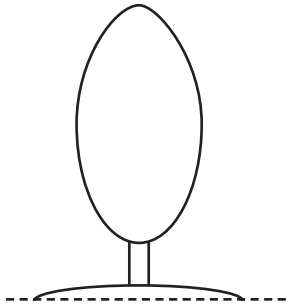


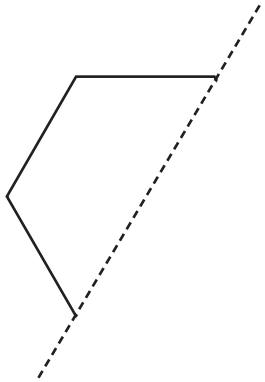


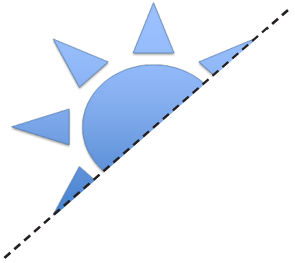
Draw the other half of these symmetrical pictures.









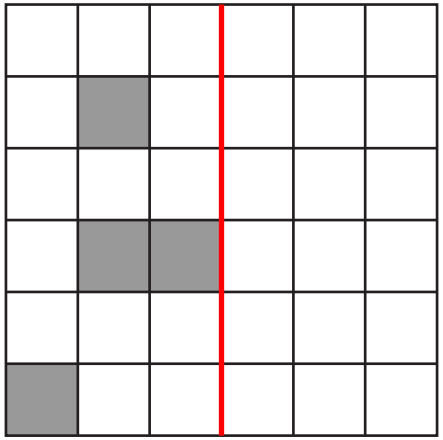


Grid symmetry patterns

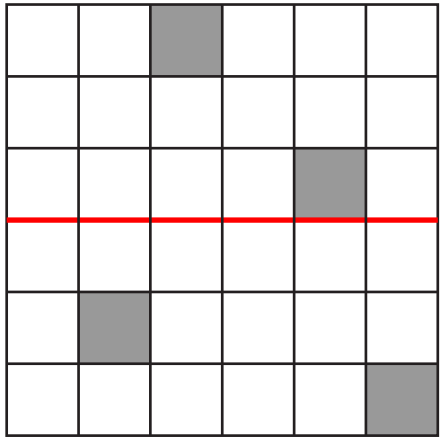
Sheet 2

Complete these patterns to make them symmetrical.

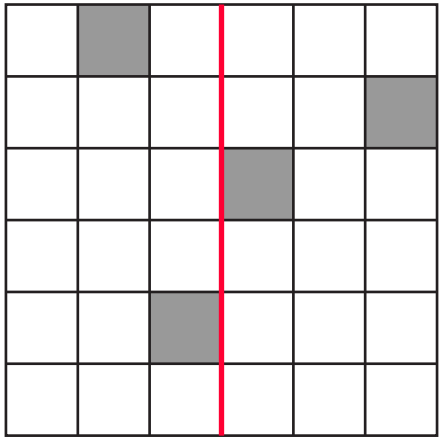
1.



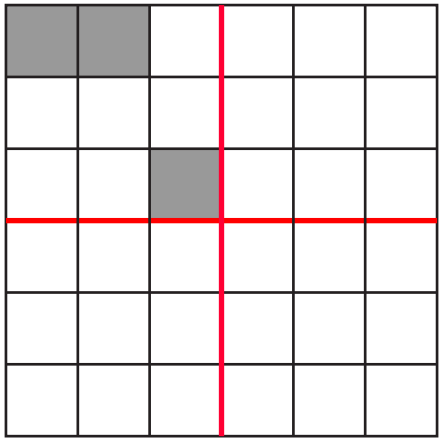
2.



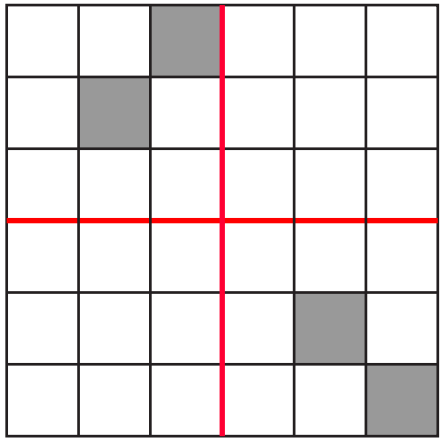
3.



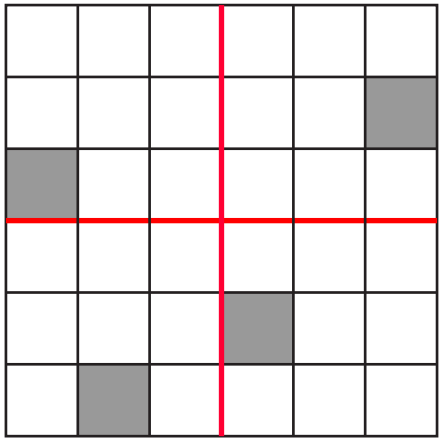
4.



5.



6.

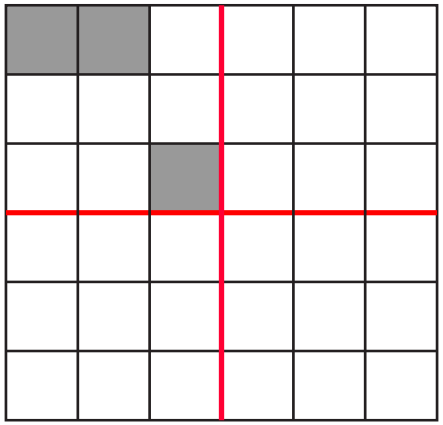


Grid symmetry patterns

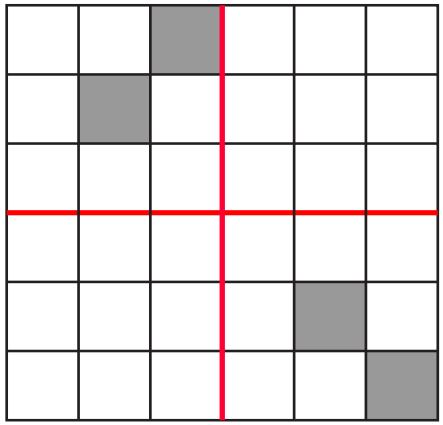
Sheet 3

Complete these patterns to make them symmetrical.

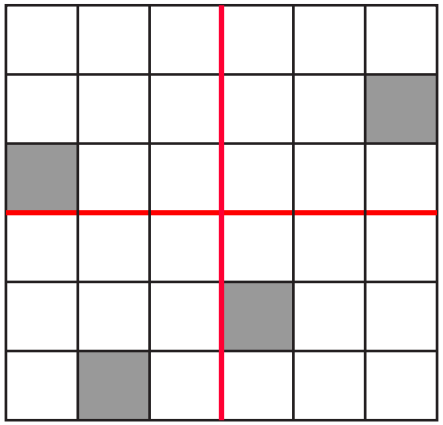
1.



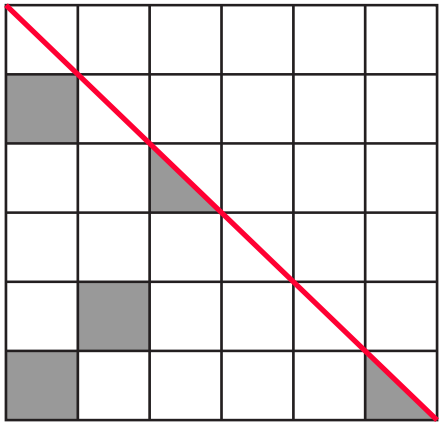
2.



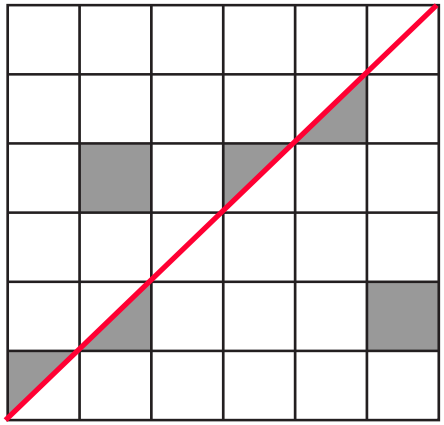
3.



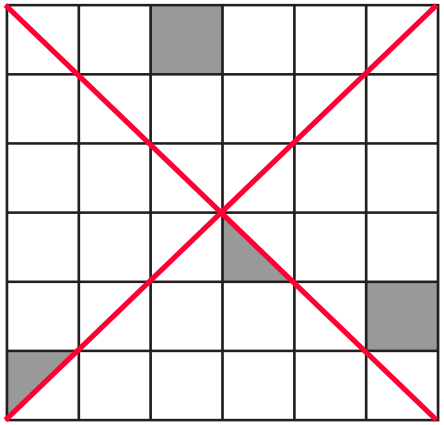
4.



5.



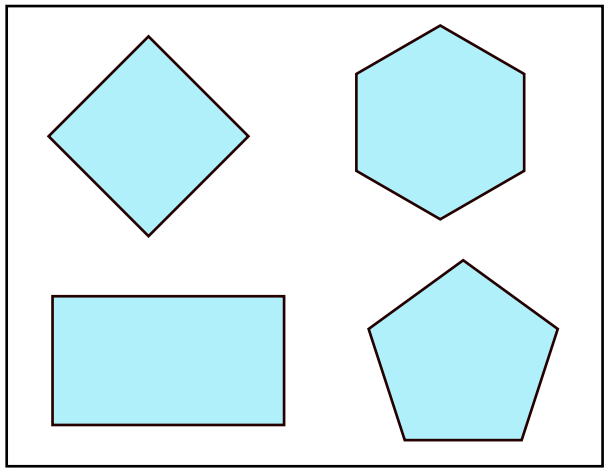
6.

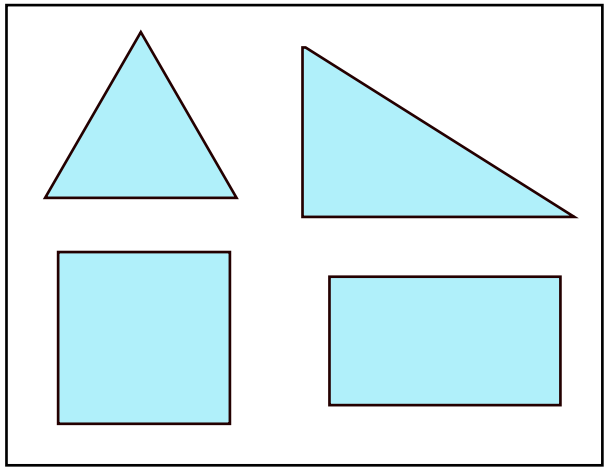


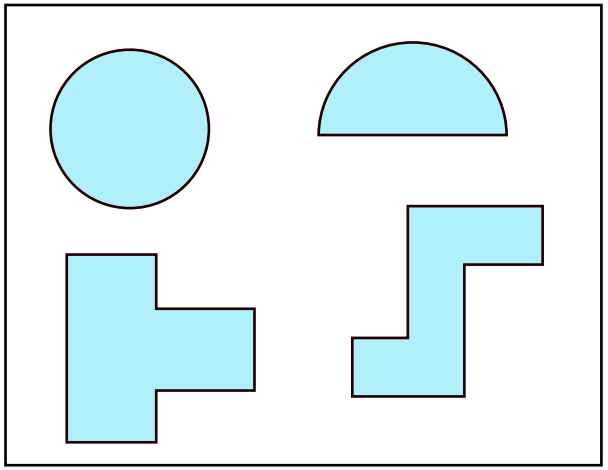
Odd one out

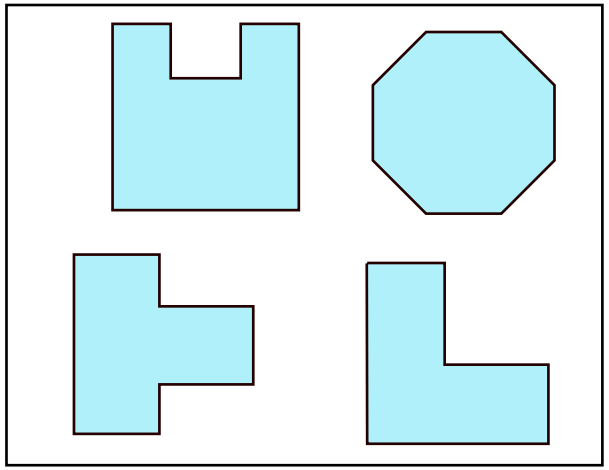
Sheet 1

Ring the odd one out in each set. Write why that shape is different.









Challenge

Draw your own set of four shapes, where one is the odd one out. Ring the odd one out. Write why that shape is different.

Shape properties

Sheet 2

Draw a shape to match each description. Write the name of your shape.

1)

Name: _____

Has four sides, all four sides are the same length, and has four right angles.

2)

Name: _____

Has six sides, all six sides are the same length, and has six obtuse angles.

3)

Name: _____

Has five sides and one line of symmetry.

4)

Name: _____

Has seven sides, has two right angles and no lines of symmetry.

5)

Name: _____

Has five sides, all five sides are the same length, and has at least one line of symmetry.

6)

Name: _____

Has eight vertices and no lines of symmetry.

7)

Name: _____

Has seven vertices, has seven sides all the same length, and no acute angles or right angles.

8)

Name: _____

Has six sides and six vertices, and three right angles.

Shape properties

Sheet 3

Draw a shape to match each description, and write the name of your shape.

1)

Name: _____

Has five sides, all five sides are the same length, and has at least one line of symmetry.

2)

Name: _____

Has eight vertices and has no lines of symmetry.

3)

Name: _____

Has seven vertices, has seven sides all the same length, and has no acute angles or right angles.

4)

Name: _____

Has six sides and six vertices, and has three right angles.

5)

Name: _____

Has six vertices, has two acute angles and four obtuse angles.

6)

Name: _____

Has five sides, no right angles and one line of symmetry.

7)

Name: _____

Has eight sides and eight vertices, all eight sides are the same length, and has at least one line of symmetry.

8)

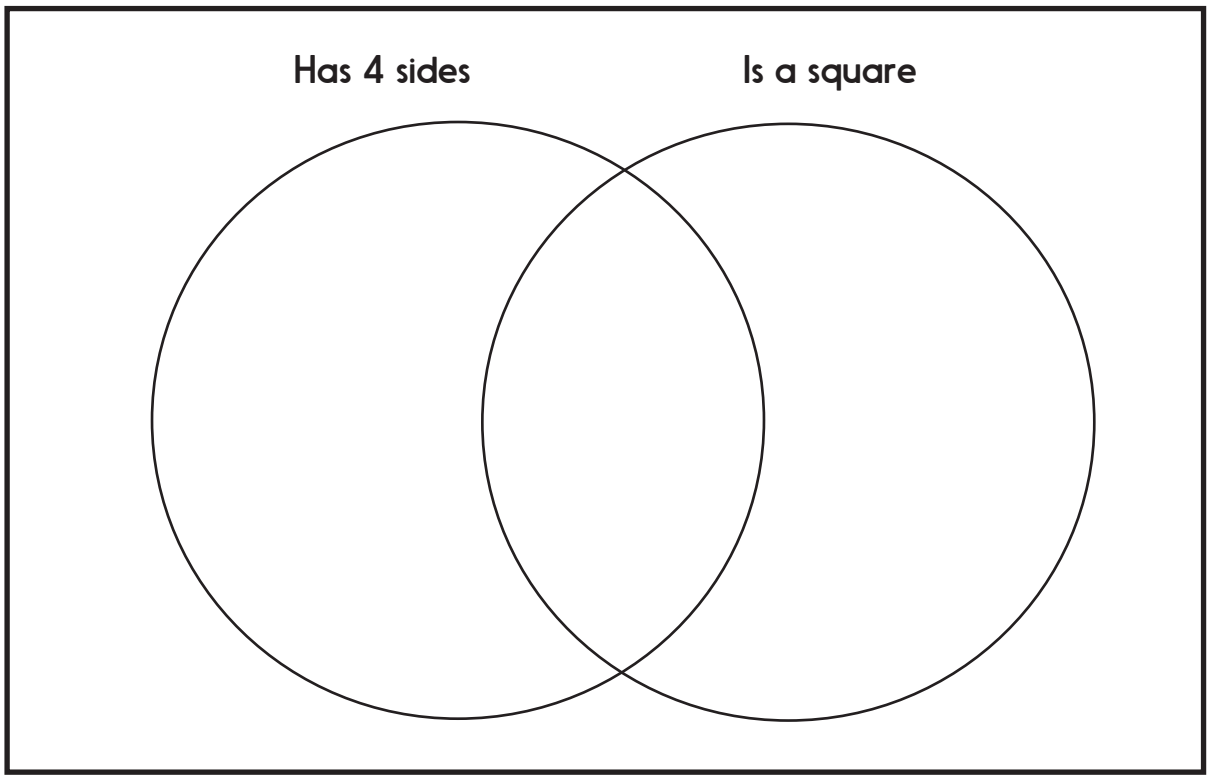
Name: _____

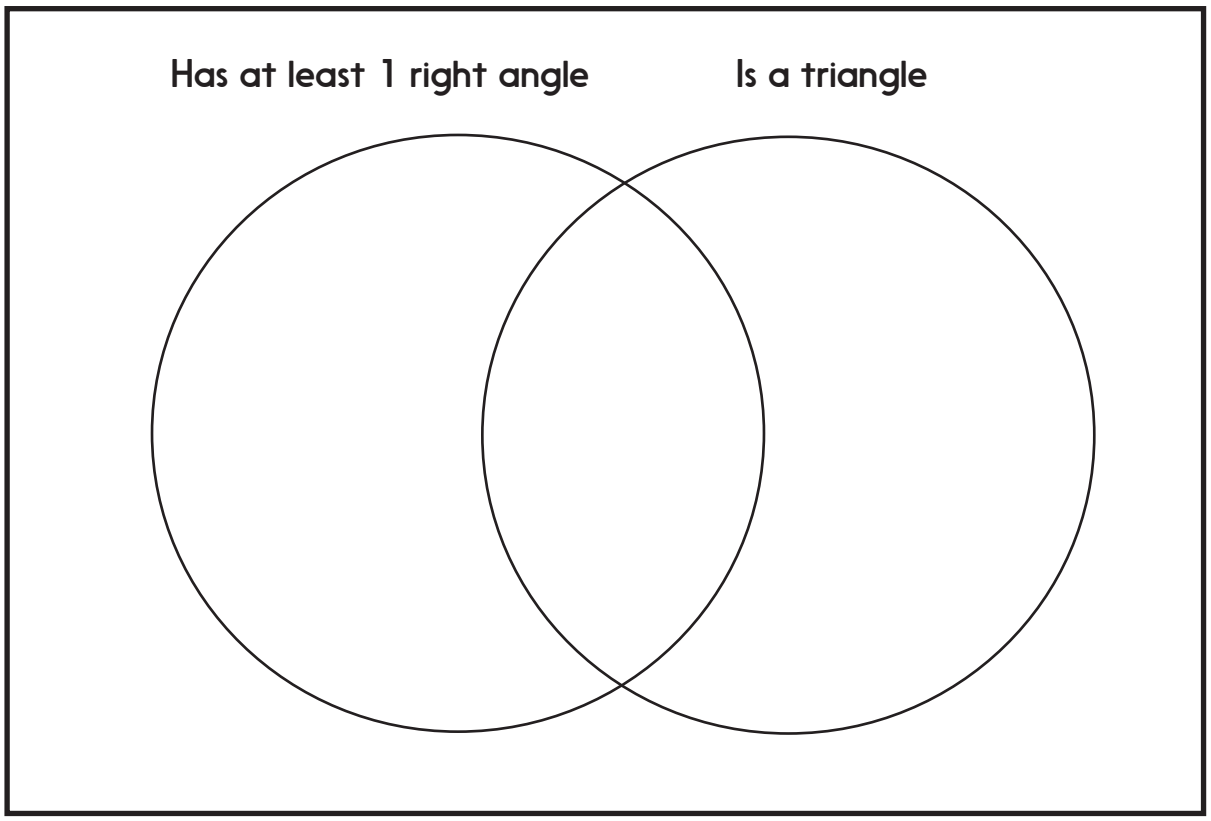
Has seven vertices, and has one line of symmetry.

Sorting 2-D shapes

Sheet 1

Draw at least one shape in each set.
Can you draw one shape in the overlap and one shape outside both sets?

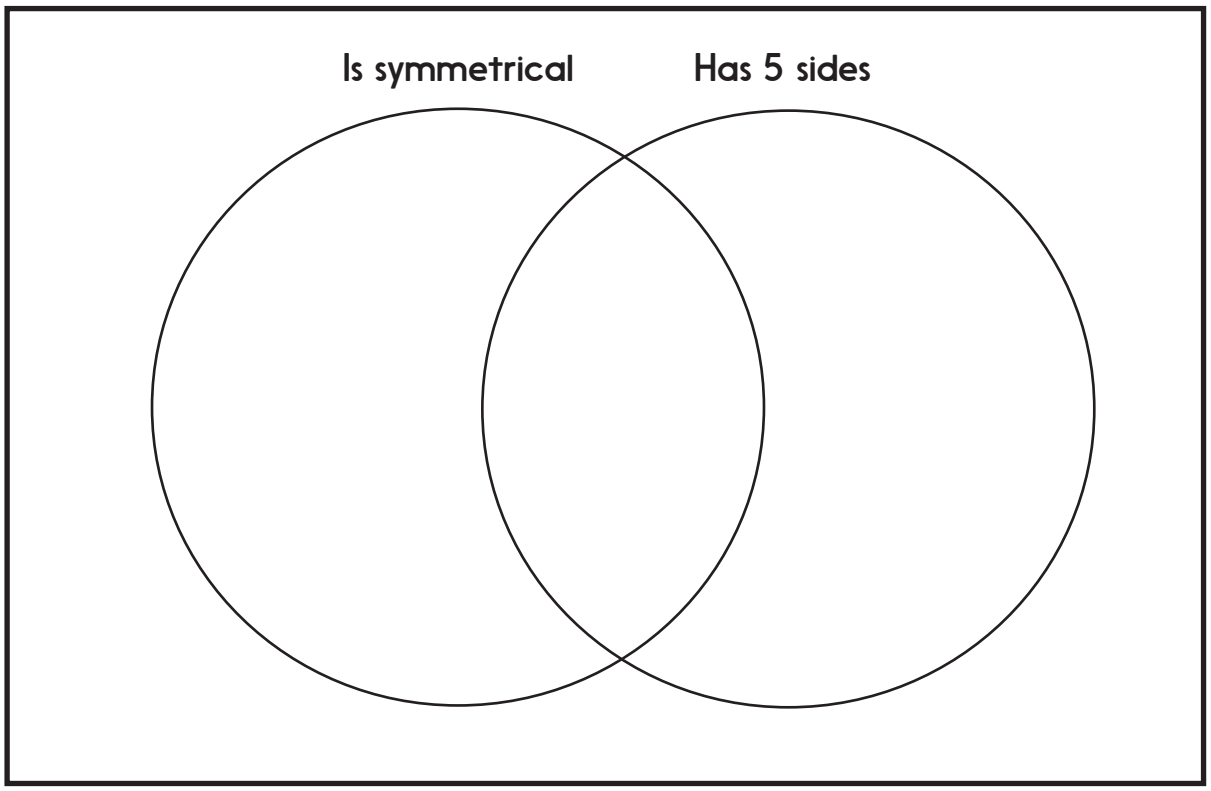


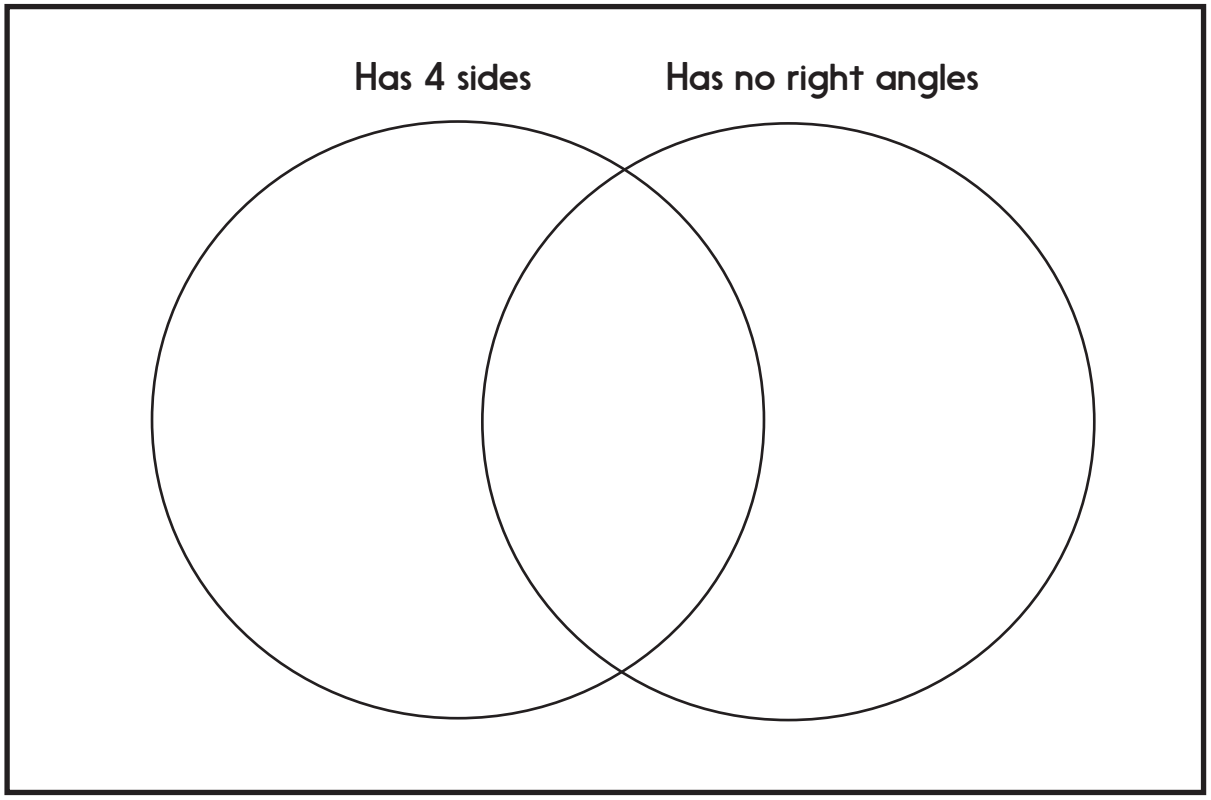


Sorting 2-D shapes

Sheet 2

Draw at least one shape in each set.
Can you draw one shape in the overlap and one shape outside both sets?



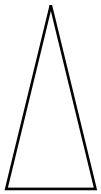


Triangles

Sheet 3

Use a set square to check if each triangle has a right angle. If it does, mark it on.
Write the name of each type of triangle and write two facts about it.

1.



Name: _____

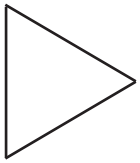
1. _____

_____

2. _____

_____

2.



Name: _____

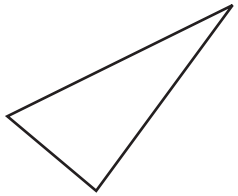
1. _____

_____

2. _____

_____

3.



Name: _____

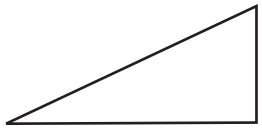
1. _____

_____

2. _____

_____

4.



Name: _____

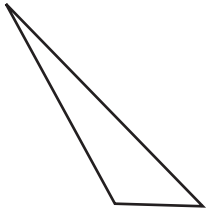
1. _____

_____

2. _____

_____

5.



Name: _____

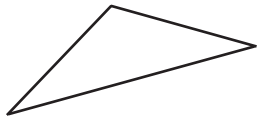
1. _____

_____

2. _____

_____

6.



Name: _____

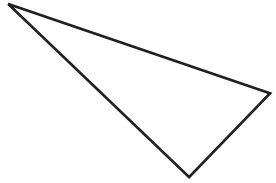
1. _____

_____

2. _____

_____

7.



Name: _____

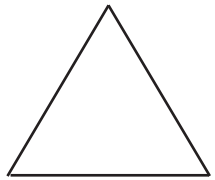
1. _____

_____

2. _____

_____

8.



Name: _____

1. _____

_____

2. _____

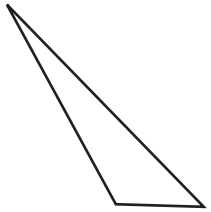
_____

Triangles

Sheet 4

Use a set square to check if each triangle has a right angle. If it does, mark it on.
Write the name of each type of triangle and write two facts about it.

1.



Name: _____

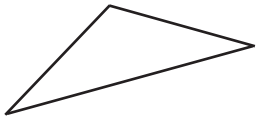
1. _____

_____

2. _____

_____

2.



Name: _____

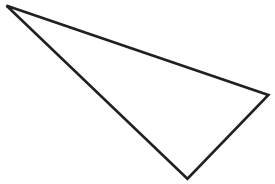
1. _____

_____

2. _____

_____

3.



Name: _____

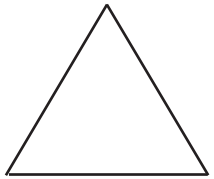
1. _____

_____

2. _____

_____

4.



Name: _____

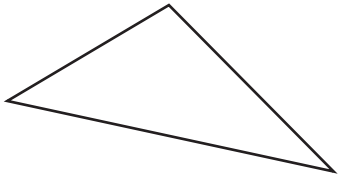
1. _____

_____

2. _____

_____

5.



Name: _____

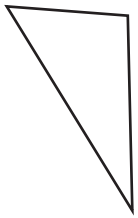
1. _____

_____

2. _____

_____

6.



Name: _____

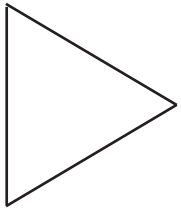
1. _____

_____

2. _____

_____

7.



Name: _____

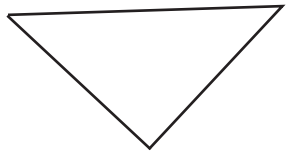
1. _____

_____

2. _____

_____

8.



Name: _____

1. _____

_____

2. _____

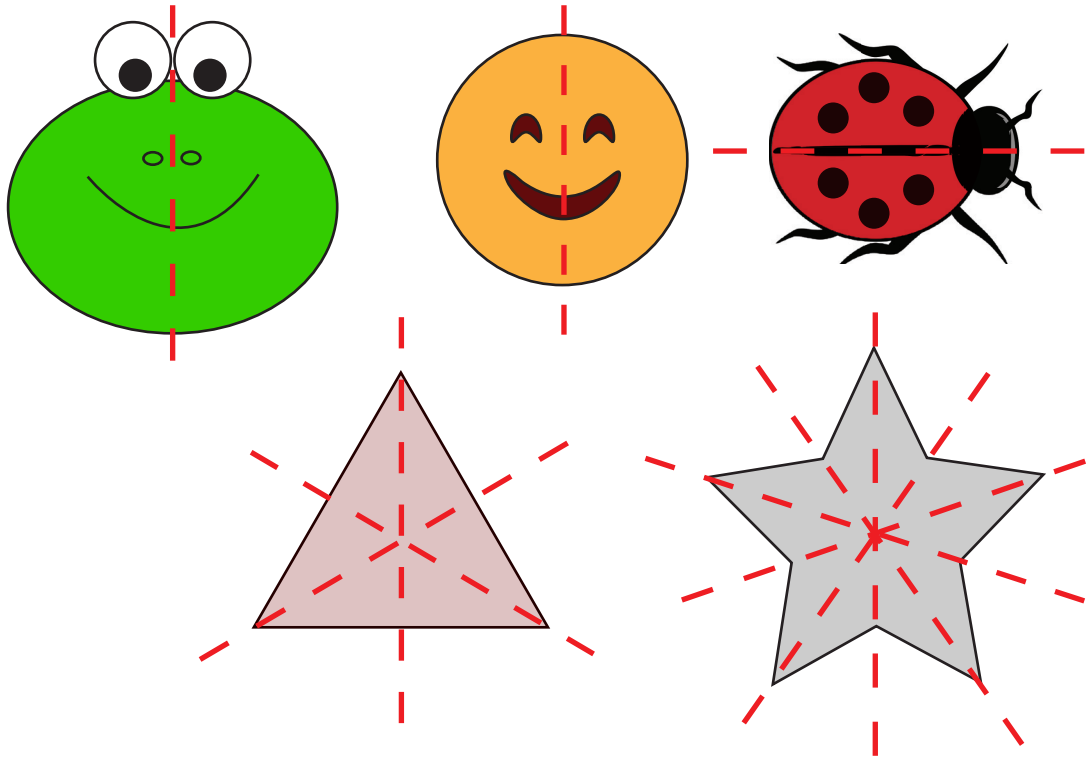
_____

Shape

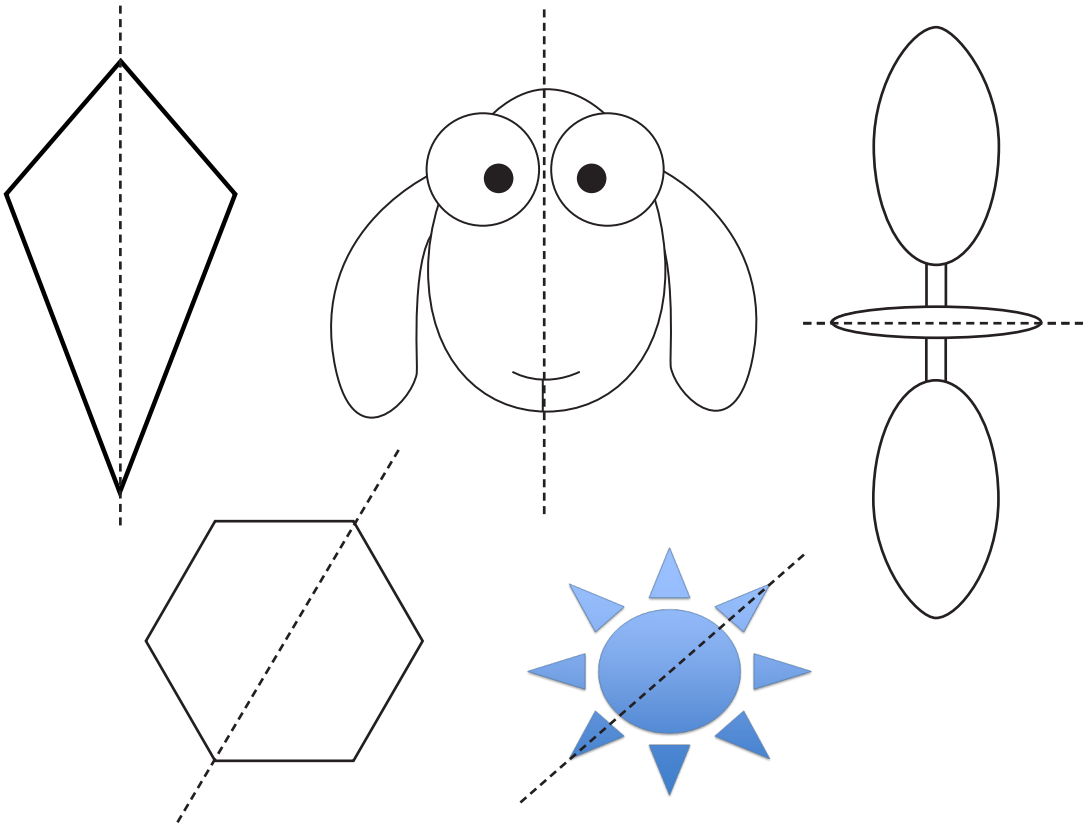
Answers

Day 1 Y3 Symmetry Sheet 1

Draw at least one line of symmetry on these pictures.



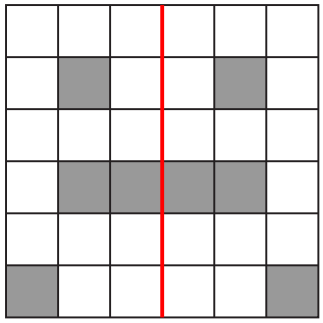
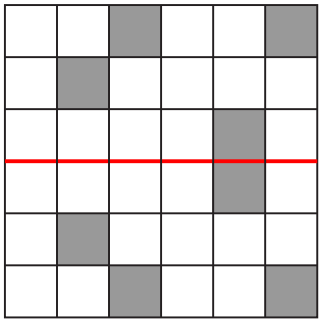
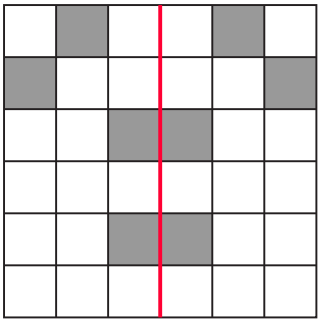
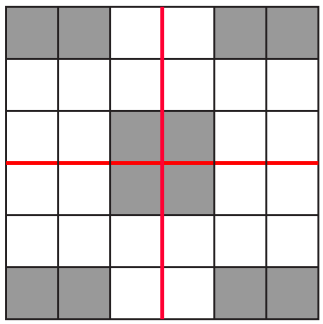
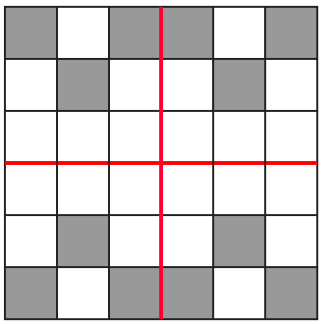
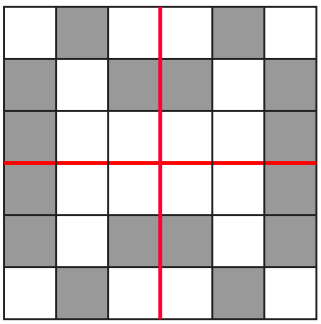
Draw the other half of these symmetrical pictures.



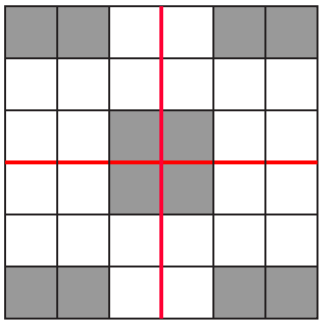
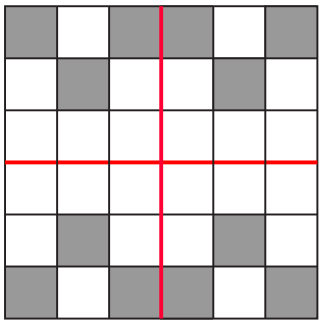
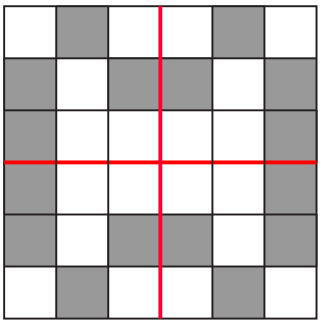
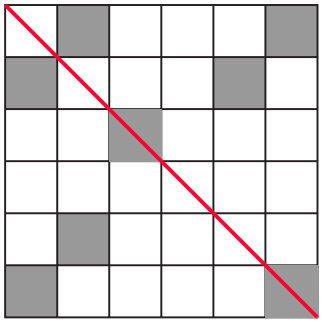
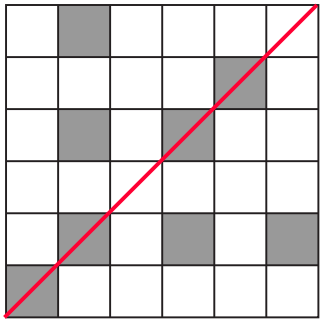
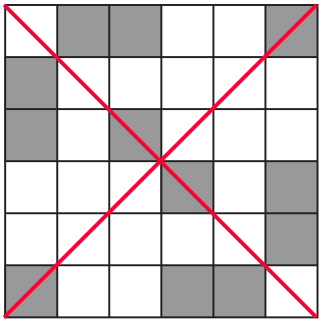
Shape

Answers

Day 1 Y4 Grid symmetry patterns Sheet 2

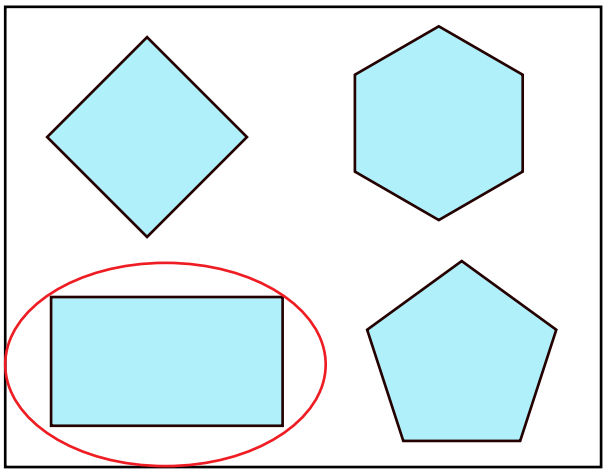
Day 1 Y4 Grid symmetry patterns Sheet 3

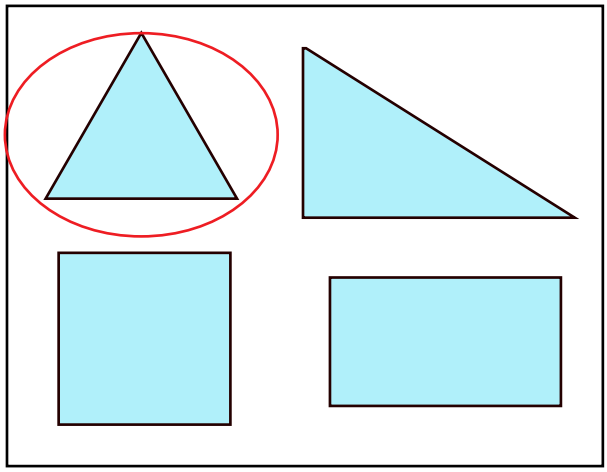
Shape

Answers

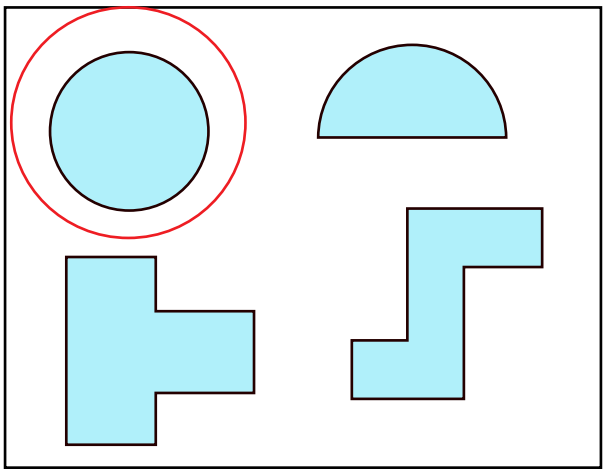
Day 2 Y3 Odd one out Sheet 1



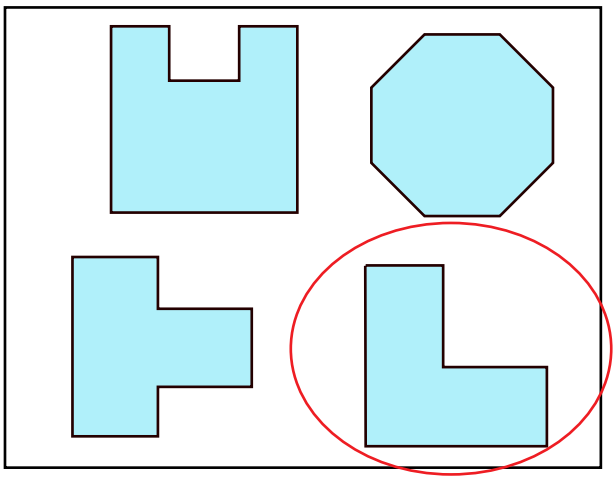
The other shapes are regular polygons.



The other shapes all have at least one right angle.



This is the only shape which doesn't have at least one straight side.
The semicircle could also be the odd one out as it has both straight and curved sides.



The other shapes are all octagons.
The top right could also be the odd one out as it is the only regular polygon.

Day 2 Y4 Shape properties Sheet 2

1. Square

2. Regular hexagon

3. Irregular pentagon, e.g.

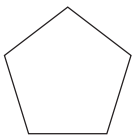
4. Irregular heptagon, e.g.

Shape

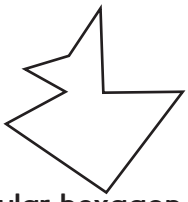
Answers

Day 2 Y4 Shape properties Sheet 2 continued

5. Regular pentagon,
e.g.

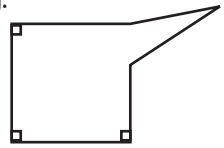


6. Irregular octagon,
e.g.



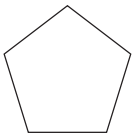
7. Regular heptagon,
e.g.

8. Irregular hexagon,
e.g.



Day 2 Y4 Shape properties Sheet 3

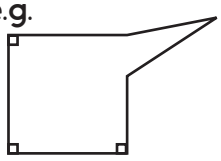
1. Regular pentagon,
e.g.



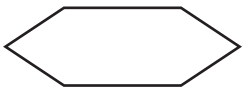
2. Irregular octagon,
e.g.

3. Regular heptagon,
e.g.

4. Irregular hexagon,
e.g.

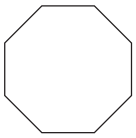


5. Irregular hexagon,
e.g.

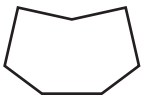


6. Irregular pentagon,
e.g.

7. Octagon,
e.g.



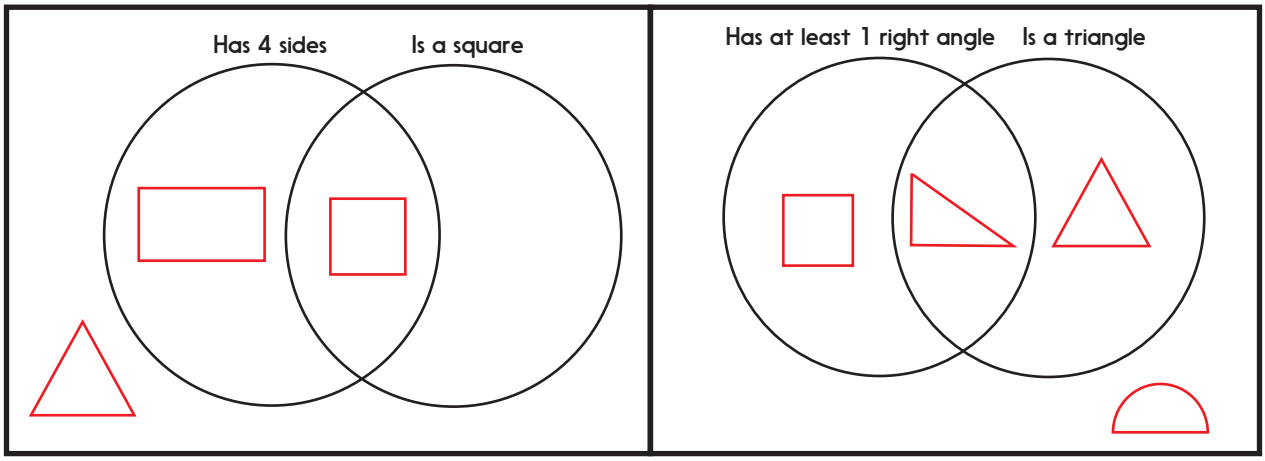
8. Irregular heptagon,



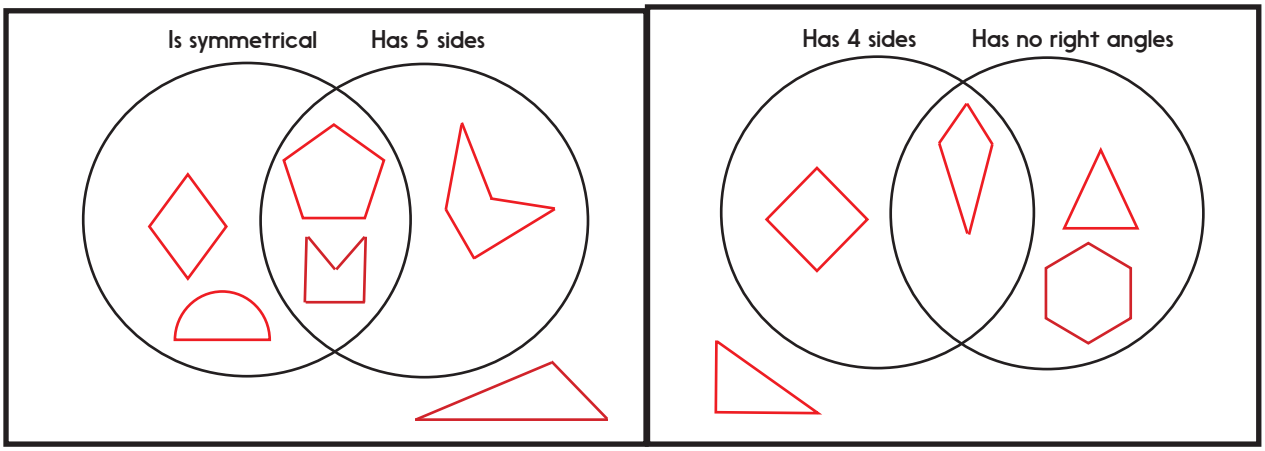
Shape

Answers

Day 3 Y3 Sorting 2D shapes Sheet 1



Day 3 Y3 Sorting 2D shapes Sheet 2



Day 3 Y4 Triangles Sheet 3

1. Isosceles
2. Equilateral
3. Scalene
4. Right angled
5. Scalene
6. Isosceles
7. Right angled
8. Equilateral

Day 3 Y4 Triangles Sheet 4

1. Scalene
2. Isosceles
3. Right angled
4. Equilateral
5. Scalene
6. Scalene
7. Equilateral
8. Isosceles, right angled