## <u>Task 1</u>

a. Polygons – true or false?



### b. Have these shapes been sorted correctly? Explain your answer.

<u>Shamir</u>			<u>Malia</u>				
		Regular Polygon	Irregular Polygon			Regular Polygon	Irregular Polygon
	Has exactly 5 sides	A	D		Has exactly 6 sides		D
	Not 5 sides	ВС	E		Not 6 sides	ВС	E F

b. <u>True or false?</u> These shapes are both regular decagons



## <u>Task 2</u>

Samantha is trying to solve a jigsaw puzzle.

She has 6 jigsaw pieces left.

Investigate the possible missing jigsaw pieces below. Two have been done for you.

How many different combinations of jigsaw pieces can you create?

You could print out or draw the grids in your book.

## She says,

All the jigsaw pieces I have left are different sizes. They are all irregular polygons and have no more than 10 sides each.







#### Answers

True	False		
They are a closed	They are 3D shapes		
shape (no gaps)	They include open shapes		
They are made up of straight lines	They can have curved sides		
They are 2D shapes	They have 5 or more sides		

b

Shamir is incorrect. Shape E is irregular because it has different length sides and angles. Shape D is regular as it has sides of equal length and the angles are the same size.

Malia is incorrect. Shape C is an irregular polygon because it has different length sides and angles. Shape F is not a polygon due to its curved side. Shape D is a pentagon as it only has 5 sides.

c. False – one is regular, one is irregular.

# How many different combinations of jigsaw pieces can you create? Various possible answers, for example:

