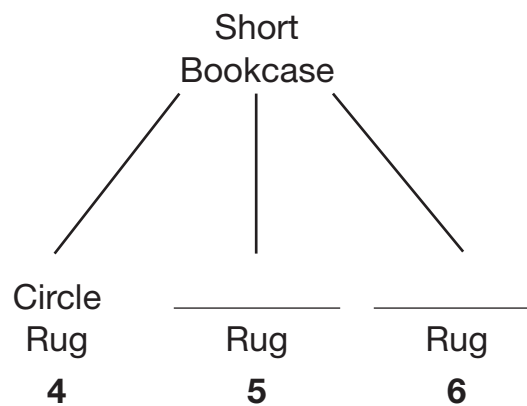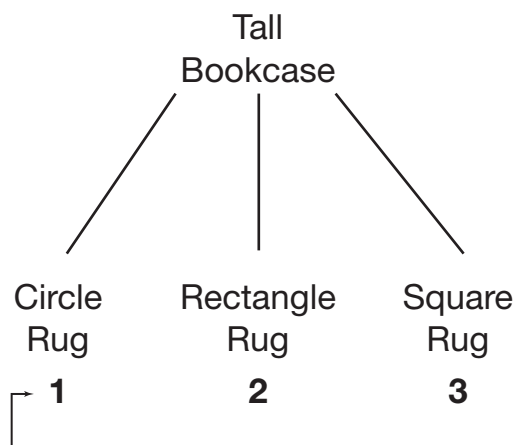Name _____

Tree Diagrams

Mrs. Leed wants to have one bookcase and one rug for the classroom library. The choices are shown in the table.

How many different combinations of one size of bookcase and one shape of rug are there?

Choices for Classroom Library

Bookcase Sizes	Rug Shapes
Tall	Circle
Short	Rectangle
	Square

A tree diagram is one way to show all the possible combinations. Complete the tree diagram that is started for you.

Tall Bookcase			Short Bookcase		
Circle Rug	Rectangle Rug	Square Rug	Circle Rug	___ Rug	___ Rug
1	**2**	**3**	**4**	**5**	**6**

Now count the combinations.

There are 6 different combinations of a bookcase and a rug.

1. Members of the soccer team need to choose a uniform. How many different combinations of one shirt color and one number color are there? Complete the tree diagram.

Choices of Uniforms

Shirt Color	Number Color
Red	Green
Blue	Black
	Yellow
	White

Red Shirt				_____ Shirt			
Green Number	Black Number	Yellow Number	White Number	Green Number	___ Number	___ Number	___ Number