

NAME: _____

1. Determine if the statement is a good definition. If it is not, state a counterexample.
A prime number is a whole number whose only factors are 1 and itself.

2. Determine if the statement is a good definition. If it is not, state a counterexample.
A triangle is a figure with three segments, each of which intersect the others exactly once.

3. Determine if the statement is a good definition. If it is not, state a counterexample.
A flower is a small living thing with bright colors.

4. Determine if the statement is a good definition. If it is not, state a counterexample.
A circle is a figure that is round.

5. Determine if the statement is a good definition. If it is not, state a counterexample.
A square is a figure with four right angles.

6. Determine if the statement is a good definition. If it is not, state a counterexample.
A rectangle is a four sided figure with four right angles.

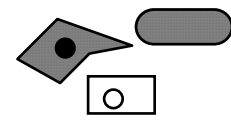
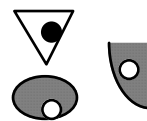
7. Determine if the statement is a good definition. If it is not, state a counterexample.
A triangle is a figure whose corners are sharp.

8. Is the following definition of parallel lines a good definition?
"Parallel lines are lines with no points in common." Explain.

9. Which figure is a swemmy?

Swemmies

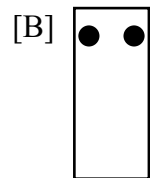
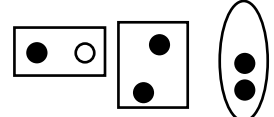
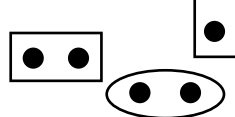
Not Swemmies



10. Which figure is a swemmy?

Swemmies

Not Swemmies



[1] a good definition _____

[2] a good definition _____

not a good definition; counterexample:

[3] Many birds also have bright colors. _____

not a good definition; counterexample:

[4] Ovals or ellipses are also round. _____

not a good definition; counterexample:

[5] Rectangles also have four right angles. _____

[6] a good definition _____

not a good definition; counterexample: Star

[7] shapes also have sharp corners. _____

Answers may vary. Sample: No, because
skew lines also have no points in common.

[8] You also need to specify that the lines lie in
the same plane. _____

[9] C _____

[10] C _____