

Answer Key - Taking Stock

1. It is necessary to give only the mirror line to describe a reflection.
2. Answers will vary.
3. Answers will vary.
4. Answers will vary.
5. A balanced design has dihedral symmetry. A dynamic design or one with a preferred direction has cyclic symmetry.
6. Each mirror line will divide the design into two congruent parts.
7. When a shape is reflected twice across the same line, it is left unchanged. When a shape is reflected across two parallel lines, it is translated. When a shape is reflected across two intersecting lines, it is rotated about the point where the two lines intersect.
8. A reflection across any diameter of a circle is a symmetry of the circle.