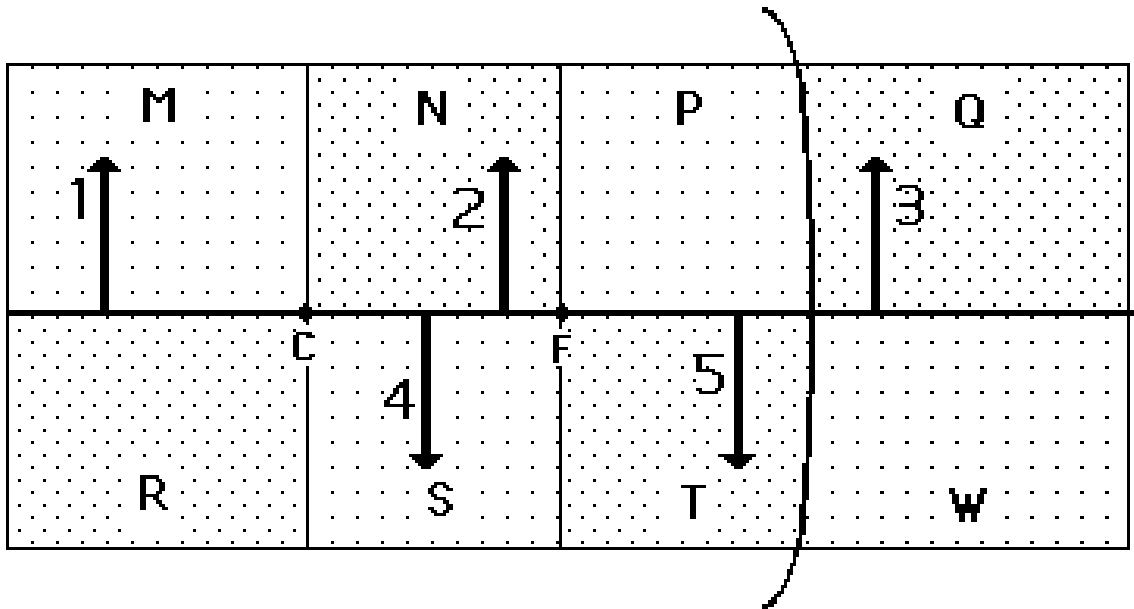


CONCAVE & CONVEX MIRROR REFLECTION - CHECK YOUR UNDERSTANDING

The diagram below shows a spherical surface that is silvered on both sides. Thus, the surface serves as double-sided mirror, with one of the sides being the concave and one being the convex side. The principal axis, focal point, and center of curvature are shown. The region on both sides of the mirror is divided into eight sections (labeled M, N, P, Q, R, S, T, and W). Five objects (labeled 1, 2, 3, 4, and 5) are shown at various locations about the double-sided mirror. Use the diagram to answer the questions #1-6.



1. The image of object 1 would be located in section _____.

M N P Q R S T W

2. The image of object 2 would be located in section _____.

M N P Q R S T W

3. The image of object 3 would be located in section _____.

M N P Q R S T W

4. The image of object 4 would be located in section _____.

M N P Q R S T W

5. The image of object 5 would be located in section _____.

M N P Q R S T W

6. The double-sided mirror would cause virtual image to be formed of objects _____.

- a. 1, 2, and 4 b. 1, 2, and 3 c. 3 and 5 d. 4 and 5 e. 3 only