

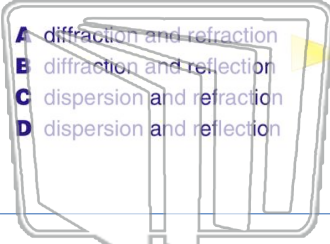


Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1

Which phenomena cause **chromatic aberration** to occur when **polychromatic light** passes through a lens?

- A diffraction and refraction
- B diffraction and reflection
- C dispersion and refraction
- D dispersion and reflection



2

A student stands 2.0 meters in front of a vertical **plane mirror**. As the student **walks toward the mirror**, the **image**

- A decreases in size and remains virtual
- B decreases in size and remains real
- C remains the same size and remains virtual
- D remains the same size and remains real



3

An incident light ray travels parallel to the principal axis of a **concave spherical mirror**. After **reflecting from the mirror**, the **light ray will travel**

4

The **focal length** of a concave spherical mirror is **0.060 meter**. What is the **radius of curvature** of the mirror?

5



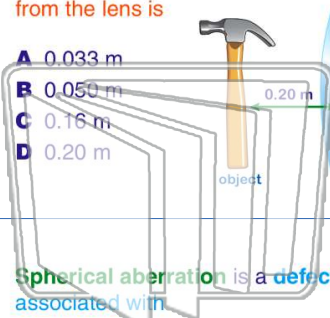
## PREVIEW

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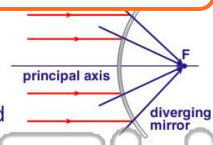
7

**0.040 meter**. The distance of the **image from the lens** is

- A 0.033 m
- B 0.050 m
- C 0.16 m
- D 0.20 m



- A real and inverted
- B real and erect
- C virtual and inverted
- D virtual and erect



9

**Spherical aberration** is a **defect** associated with

- A spherical mirrors, only
- B plane mirrors, only
- C both spherical mirrors and lenses
- D both plane mirrors and lenses

10

Compared to a **photon of red light**, a **photon of blue light** has a

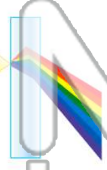
- A greater energy
- B longer wavelength
- C smaller momentum
- D lower frequency



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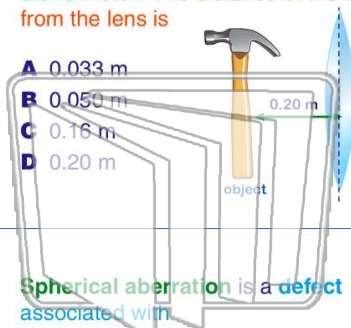


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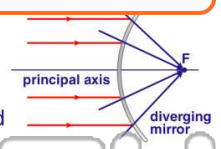
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