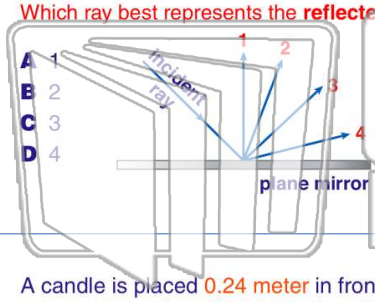
Optics

Name_____ Class_____ Date_____

1 A light ray is incident on a **plane mirror** as shown in the diagram below.

Which ray best represents the **reflected ray**?



A 1
B 2
C 3
D 4

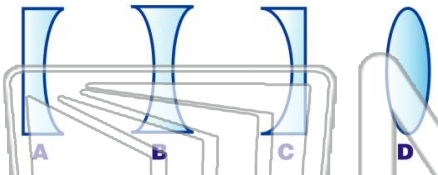
2 The **radius of curvature** of a spherical mirror is ***R***. The **focal length** of this mirror is equal to

A $\frac{R}{2}$ C $\frac{R}{4}$
B $2R$ D $4R$

3 A candle is placed 0.24 meter in front of a **converging mirror** that has a focal length of 0.12 meter. How far from the mirror is the **image** of the candle located?

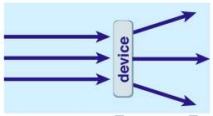
4 A **converging lens** forms a real image that is four times **larger** than the object. If the image distance is 0.16 meter, what is the

7



an optical device.

The **device** could be a



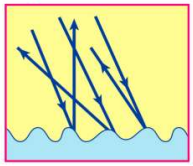
A convex glass lens
B rectangular glass block
C plane mirror
D concave glass lens

9 A person is standing in front of a **diverging (convex) mirror**. What **type of image** does the mirror form of the person?

A erect, virtual, and smaller than the person
B erect, virtual, and the same size as the person
C erect, real, and smaller than the person
D erect, real, and the same size as the person

10 The diagram below shows parallel rays of light incident on an **irregular surface**.

Which **phenomenon** of light is illustrated by the diagram?



A diffraction
B refraction
C regular reflection
D diffuse reflection

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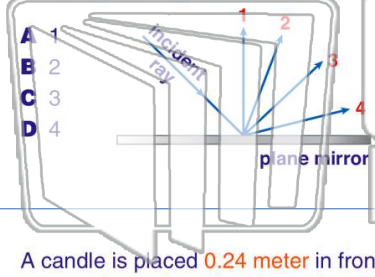

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A

PREVIEW

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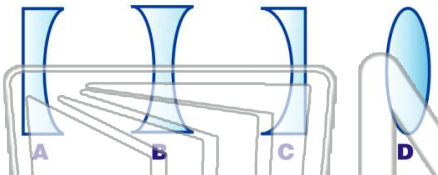
5

C

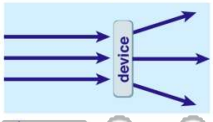
7



D

an optical device.

The **device** could be a



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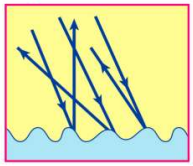

A diffraction
B refraction
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D diffuse reflection

D