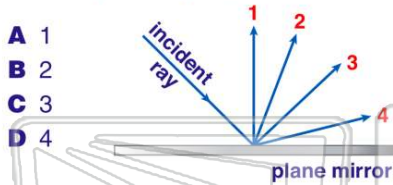




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

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

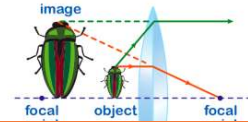
- 3 A candle is placed **0.24 meter** in front of a **converging mirror** that has a **focal length** of **0.12 meter**. How far from the mirror is the **image** of the candle located?

- A 0.08 m
- B 0.12 m



- 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 **object distance**?

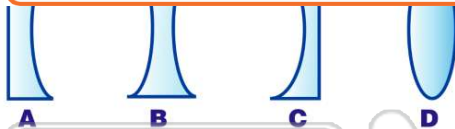
- A 0.040 m
- B 0.080 m



## PREVIEW

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7



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

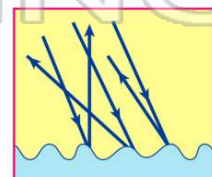
- 9 A person is standing in front of a **diverging (convex) mirror**. What **type of image** does the mirror form of the person?

- 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



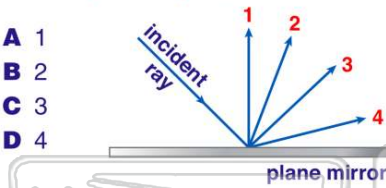


## ANSWER KEY

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



(C)

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

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

(a)

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?

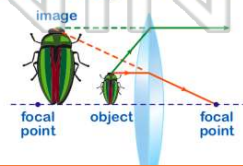
- A 0.08 m
- B 0.12 m
- C 0.24 m
- D 0.36 m



(C)

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 **object distance**?

- A 0.040 m
- B 0.080 m
- C 0.16 m



(a)



## PREVIEW

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- B rectangular glass block
- C plane mirror
- D concave glass lens

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

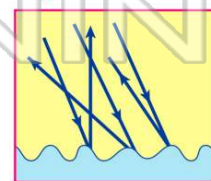
- A erect, virtual, and smaller than the person
- B erect, virtual, and the same size as the person
- C erect, real, and smaller than the person
- D erect, real, and the same size as the person

(a)

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



(d)