



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

1 If a lens were placed in water, its **focal length** would

- A decrease
- B increase
- C remain the same



3 When an object is placed at the **focal point** of a **concave mirror**, the mirror produces

- A an image that is smaller than the object
- B an image that is larger than the object
- C an image that is the same size as the



2 Which characteristics best describe the **image** produced by a **plane mirror**?

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



4 Which **optical device** causes **parallel light rays** to **diverge**?

- A convex mirror
- B concave mirror
- C plane mirror
- D convex lens

5



## PREVIEW

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- A converge and form a virtual image
- B converge and form a real image
- C diverge and form a virtual image
- D diverge and form a real image

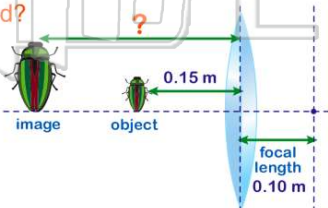


- B concave mirror and concave lens
- C plane mirror and convex lens
- D plane mirror and concave lens

9

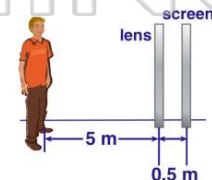
An object is located **0.15 meter** from a **converging lens** with **focal length 0.10 meter**. How far from the lens is the **image** formed?

- A 0.060 m
- B 0.10 m
- C 0.15 m
- D 0.30 m



10 When a student **1.5 meters tall** stands **5.0 meters** in front of a lens, his image forms on a screen located **0.50 meter behind** the lens. What is the **height of the student's image**?

- A 0.015 m
- B 0.15 m
- C 1.5 m
- D 15 m

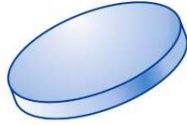




## ANSWER KEY

If a lens were placed in water, its **focal length** would

- A decrease
- B increase
- C remain the same



(b)

Which characteristics best describe the **image** produced by a **plane mirror**?

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



(d)

When an object is placed at the **focal point** of a **concave mirror**, the mirror produces

- A an image that is smaller than the object
- B an image that is larger than the object
- C an image that is the same size as the object
- D no image



(d)

Which **optical device** causes **parallel light rays** to **diverge**?

- A convex mirror
- B concave mirror
- C plane mirror
- D convex lens

(a)



## PREVIEW

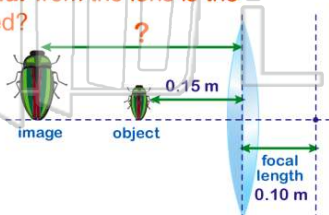
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- B converge and form a real image
- C diverge and form a virtual image
- D diverge and form a real image

D plane mirror and concave lens

An object is located **0.15 meter** from a **converging lens** with **focal length 0.10 meter**. How far from the lens is the **image** formed?

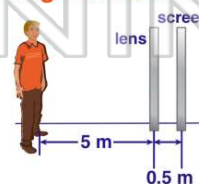
- A 0.060 m
- B 0.10 m
- C 0.15 m
- D 0.30 m



(d)

When a student **1.5 meters** tall stands **5.0 meters** in front of a lens, his image forms on a screen located **0.50 meter** behind the lens. What is the **height** of the student's **image**?

- A 0.015 m
- B 0.15 m
- C 1.5 m
- D 15 m



(b)