ONTARIO SCIENCE, GRADE 10, ACADEMIC (SNC2D) · UNIT D · 10 QUESTIONS

Physics: Light and Geometric Optics — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A concave mirror used as a shaving mirror produces an image that is**

- **A** real, inverted, and smaller
- **B** virtual, inverted, and smaller
- **C** real, upright, and magnified
- **D** virtual, upright, and magnified

Understand It with Pulse | Flag a mistake

2 **Refraction occurs because light changes**

- **A** Speed when it enters a different medium
- **B** Colour in a vacuum
- **C** Mass in a lens
- **D** Charge in a mirror

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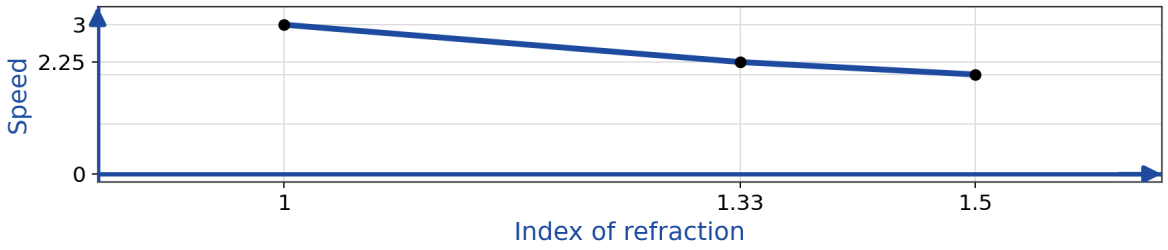
3 **The graph shows measured speeds of light in materials with different indices of refraction. The index of refraction of a material in which light travels at 2.25×10^8 m/s is**



ANSWER _____

Understand It with Pulse | Flag a mistake

4 **In a refracting telescope, the objective lens mainly functions to**

- A block the eyepiece
- B collect light and form an image of a distant object
- C reflect light back to the object
- D absorb all incoming light

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5 **A diverging lens always forms an image that is**

- A real, upright, and the same size
- B virtual, inverted, and larger than the object
- C virtual, upright, and smaller than the object
- D real, inverted, and larger than the object

Understand It with Pulse | Flag a mistake

6 **A ray strikes a mirror along the normal. The angle of incidence, in degrees, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **Which part of the eye controls how much light enters by changing the size of the pupil?**

A Retina

B Cornea

C Lens

D Iris

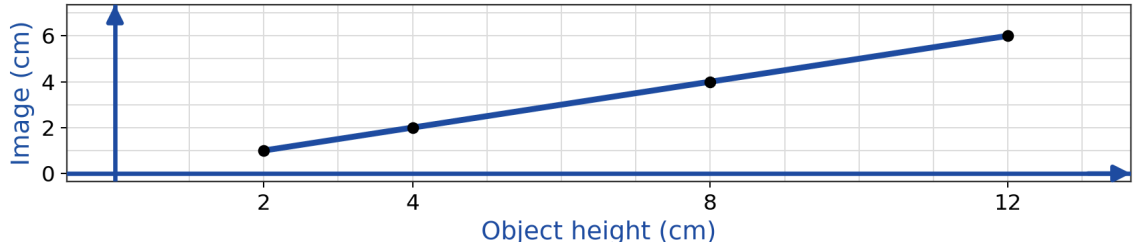
Understand It with Pulse | Flag a mistake

8 **A laser differs from ordinary light because laser light is**

- **A** coherent and travels in a narrow beam
- **B** slower than ordinary light in a vacuum
- **C** made of sound waves
- **D** always invisible

Understand It with Pulse | Flag a mistake

9 **The graph shows measured image heights for objects of different heights. For an object 12 cm tall, the magnification is**



ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A projector uses a converging lens to form an image on a screen that is**

A virtual, inverted, and magnified

B real, inverted, and magnified

C virtual, upright, and smaller

D real, upright, and smaller

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ANSWER KEY

1. D
2. A
3. 1.33
4. B
5. C
6. 0
7. D
8. A
9. 0.5
10. B

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