ONTARIO SCIENCE, GRADE 10, ACADEMIC (SNC2D) · UNIT D · 5 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 **Light travels in straight lines. This property explains why**

- **A** shadows have sharp edges in bright sunlight
- **B** light bends around every corner
- **C** mirrors absorb all light
- **D** lenses always diverge light

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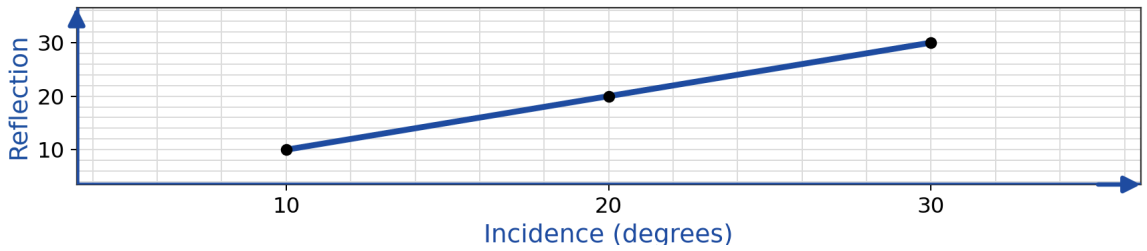
2 **The graph shows measured angles of reflection for different angles of incidence. The angle of reflection for an angle of incidence of 20 degrees, in degrees, is**



ANSWER _____

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3 **A convex mirror always forms an image that is**

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

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4 **Which device uses total internal reflection to carry signals as light pulses over long distances?**

- A Prism
- B Magnifying glass
- C Optical fibre
- D Plane mirror

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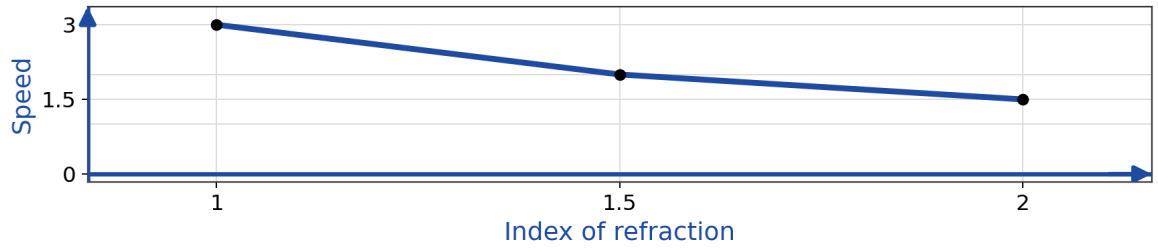
5 **The graph shows measured speeds of light in materials with different indices of refraction. The speed in a material with index 2.0 , in units of 10^8 m/s, is**



ANSWER

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ANSWER KEY

1. A
2. 20
3. B
4. C
5. 1.5

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