24 A stationary sound wave has a series of nodes. The distance between the first and the sixth node is 30.0 cm.

What is the wavelength of the sound wave?

- **A** 5.0 cm
- **B** 6.0 cm
- **C** 10.0 cm
- 12.0 cm

25 Which of the following applies to a progressive transverse wave?

	transfers energy	can be polarised
Α	no	no
В	no	yes
С	yes	no
D	yes	yes

- 26 Which of the following may be used to produce stationary waves?
 - A blowing air over the top of an empty bottle
 - B making a loud sound near a mountain
 - C passing monochromatic light through a double slit
 - D passing water waves through a narrow slit
- 27 In an interference experiment, two slits are illuminated with white light.



What is seen on the screen?

- A The central fringe is black with black and white fringes on each side.
- **B** The central fringe is black with coloured fringes on each side.
- **C** The central fringe is white with black and white fringes on each side.
- **D** The central fringe is white with coloured fringes on each side.