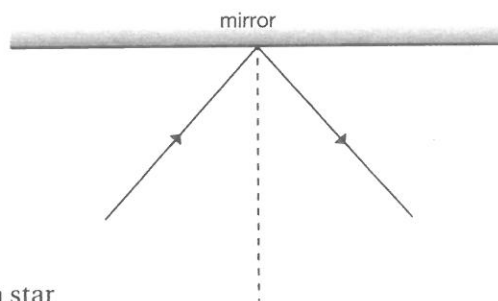


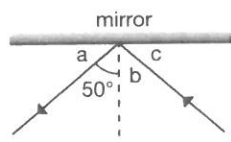
Science understanding

Visual/spatial Logical/mathematical

Figure 4.5.1



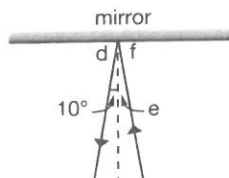
- 1 Identify the following features in Figure 4.5.1 by:
 - (a) colouring the *incident ray* red
 - (b) colouring the *reflected ray* blue
 - (c) pointing to the *normal* with an arrow
 - (d) showing the *angle of incidence* using a star
 - (e) showing the *angle of reflection* using a cross.
- 2 Given that there is a total of 180° making up the angles in any straight line, use your understanding of reflection to **calculate** the size of each angle shown in Figure 4.5.2.



a = _____

b = _____

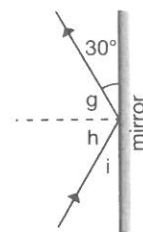
c = _____



d = _____

e = _____

f = _____



g = _____

h = _____

i = _____

Figure 4.5.2

- 3 In Figure 4.5.3, Ray 1 hits a mirror that is joined at right angles to a second mirror. **Draw** the path of Ray 1 beyond this point.
- 4 In Figure 4.5.4, Xavier stands at point X in front of a plane mirror. In the same room are an apple (A), a basket (B), a cantaloupe (C), a doughnut (D) and an egg (E). **Identify** which objects Xavier can see when he looks into the mirror, by drawing a circle around them.

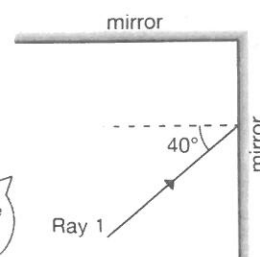


Figure 4.5.3

X

A

B

C

E

D

Figure 4.5.4

