

6 A sensor is an input device that is used to capture data from its surrounding environment.

(a) Circle **three** other input devices.

- touch screen
- hard disk drive (HDD)
- headphones
- speaker
- microphone
- actuator
- universal serial bus (USB) drive
- printer
- keyboard

[3]

(b) Sensors can be used in an automated system.

Give **two** benefits of using sensors in this type of system.

1 .....

.....

2 .....

.....

[2]

(c) The table contains different types of sensors and a use for each.

Complete the table by giving a suitable use for each type of sensor. The first one has been done for you.

type of sensor	use
acoustic	to monitor whether a water pipe has cracked and is leaking and dripping onto the floor
temperature	..... ..... .....
humidity	..... ..... .....
infra-red	..... ..... .....
magnetic field	..... ..... .....

[4]