### Waves

## **CONCEPT 1**

# 3. Wave Effects

#### **TEST YOURSELF**

#### ULTRASOUND

**KNOW** 

- Q1 What is the average range of human hearing?
- Q2 Why is there no point in having a sound system that plays note higher than 20 000 Hz?
- Q3 If a trumpet playing a note of 200 Hz, what, in this instrument, is vibrating at this rate?



- Which of the following frequencies are ultrasound? Q4
  - A 50 000 Hz B 5000 Hz C 500 Hz
- Q5 The following toothbrush is being sold:

Look at the information on the front of the box.

Is this toothbrush ultrasonic? Give a reason for your answer



Why might using ultrasound on tense muscles be Q6 different to having a massage?

Why do ultrasound scans not show colour?

Q7 Look at these images of ultrasound scans of unborn babies.









D 5 Hz

