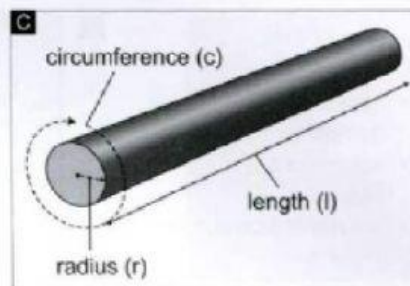
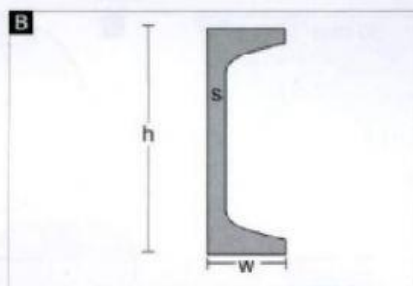
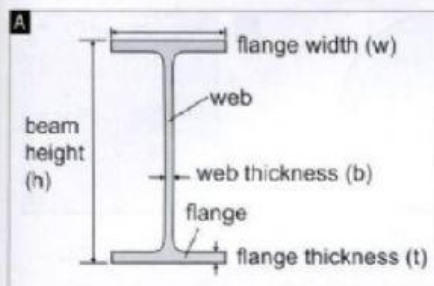


Listening 6 ▶ 46 Listen to a structural engineer describing the dimensions of two beams: an I-shaped cross-section and a standard channel cross-section, and a rod. Complete these tables.



I-shaped cross-section	
Flange width:	(1) _____
Flange thickness:	(2) _____
Web thickness:	(3) _____
Beam height:	(4) _____
Area:	(5) _____

Standard channel cross-section	
Depth (h):	(6) _____
Width (w):	(7) _____
Web thickness (s):	(8) _____
Area:	(9) _____

Rod	
Radius (r):	(10) _____
Length (l):	(11) _____

Language

Expressions

Note how we say dimensions:

3.520 = *three point five two oh*

0.370 = *(nought/zero/oh) point three seven oh*

(We do NOT say *three point fifty-two*, or *three point five hundred and twenty*.)

1 inch = approximately 25 millimetres

This board is 30 × 600. = This board is 30 by 600.

7 Write these dimensions in words.

1 2.345

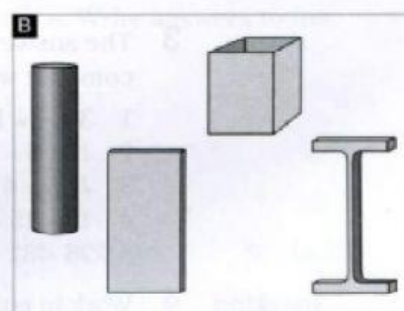
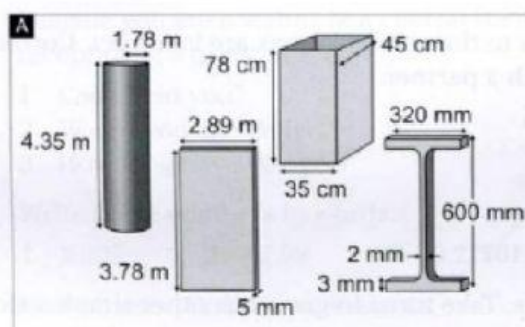
2 0.146

3 35.290

4 63.38

5 3.402

Speaking 8 Work in pairs to complete these dimensions. Student A look at the information on this page. Student B look at the information on page 70.



A: What are the dimensions of the rod?

B: It's 4.35 metres long ...

A: What about the radius?

B: The radius is ...