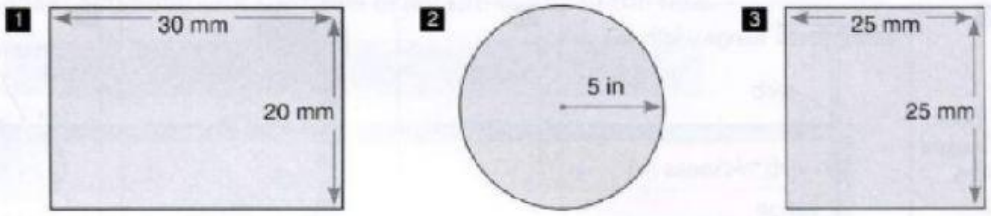
Calculations

Vocabulary

- area of a circle = πr^2
- volume of a cylinder = $\pi r^2 h$
- volume of a sphere = $\frac{4}{3}\pi r^3$
- volume of a cone = $\frac{1}{3}\pi r^2 h$

1 Look at these cross-sections. Calculate the areas.



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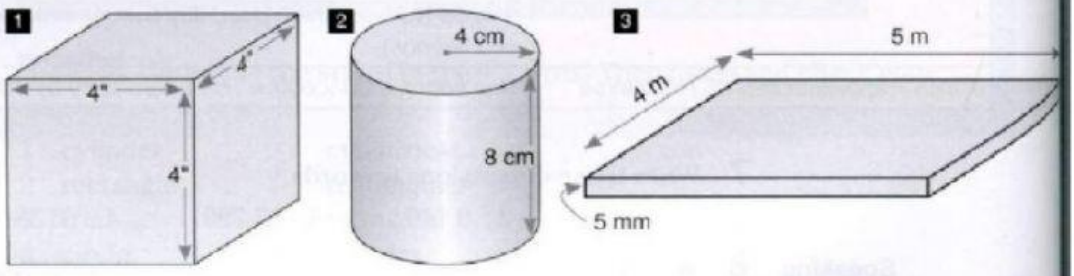
Language

Calculations

Note how we say calculations:

$20 \times 30 = 600$ = *twenty times thirty is/equals 600*	= equals
πr^2 = *pi r squared*	+ plus
$2\pi r$ = *two pi r*	– minus
600 m^2 = *six hundred square metres*	/ divided by
600 m^3 = *six hundred cubic metres*	× multiplied by/times
$\sqrt{64} = 8$ = *the square root of sixty-four is eight*	$\sqrt{}$ the square root of

2 Calculate these volumes. Compare your answers with a partner.



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3 The answers to these calculations are incorrect. Correct the answers and then compare with a partner.

1 $3 \times 4 = 15$
2 $16 / 8 = 3$
3 $\sqrt{25} = 4$
4 $18 - 15 = 2$
5 $76 + 32 = 107$

Speaking

4 Work in pairs. Take turns to give each other simple calculations to do.

A: What's the square root of 121?
B: 11. My turn. What's 174 divided by 3?
A: 48.
B: No, it's 58.

LIVEWORKSHEETS