cubes at CfE level 4

$1 \times 1 \times 1 = 1^3 = 1$

$2 \times 2 \times 2 = 2^3 = 8$

$3 \times 3 \times 3 = 3^3 = 27$

$4 \times 4 \times 4 = 4^3 = 64$

$5 \times 5 \times 5 = 5^3 = 125$

$6 \times 6 \times 6 = 6^3 = 216$

$7 \times 7 \times 7 = 7^3 = 343$

$8 \times 8 \times 8 = 8^3 = 512$

$9 \times 9 \times 9 = 9^3 = 729$

$10 \times 10 \times 10 = 10^3 = 1000$

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Think of these cubes and cube roots as advanced forms of 'tables' which are best memorised.

So, any time you see the number 343, don't just think 'That's more than 300'

Much better to think 'That's 7 cubed!'

The maths needed to do the question may well make use of that relation and then be easier!

You can also do the Wee Red Box flash cards (pass marks for a 'well done' award are 20/20, so you either know it or you don't!)

cube roots at CfE level 4

$\sqrt[3]{1} = 1$

$\sqrt[3]{8} = 2$

$\sqrt[3]{27} = 3$

$\sqrt[3]{64} = 4$

$\sqrt[3]{125} = 5$

$\sqrt[3]{216} = 6$

$\sqrt[3]{343} = 7$

$\sqrt[3]{512} = 8$

$\sqrt[3]{729} = 9$

$\sqrt[3]{1000} = 10$