

M3 = 14 days to go!

6 Factorise fully each of the following:

(a) $12a + 6$

Answer _____ [1]

(b) $y^2 - 6y$

Answer _____ [1]

(c) $b + b^2$

Answer _____ [1]

16 (a) Write 200 as a product of its prime factors.

Give your answer in index notation.

Answer _____ [3]

(b) Hence find the smallest number you can multiply 200 by to make a cube number.

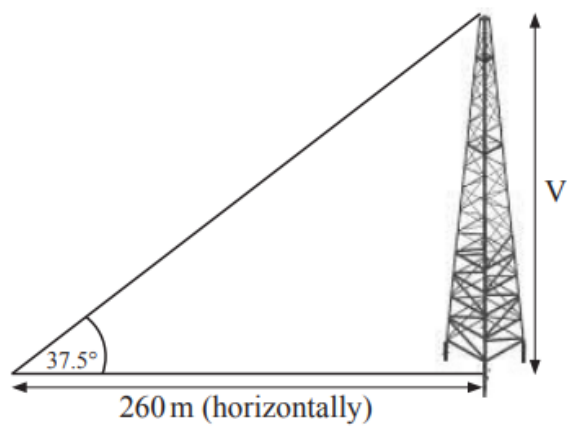
Answer _____ [1]

17 Calculate the compound interest that £1 600 would earn after three years at 5% interest per annum.

Give your answer correct to the nearest £.

Answer £ _____ [4]

24 Calculate the height V of this vertical radio mast.



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Answer _____ m [3]