

**7**

$$A = 2^3 \times 3^2 \times 5^4$$

$$B = 2^2 \times 3^3 \times 5^n$$

Given that the Lowest Common Multiple (LCM) of  $A$  and  $B$  is 3375000

find the value of the integer  $n$ .

Show your working clearly.

$$n = \dots$$

**(Total for Question 7 is 2 marks)**

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P 6 8 8 1 7 A 0 5 2 8