

**SMART EXAM RESOURCES**  
**SUBJECT: CAMBRIDGE INTERNATIONAL MATH**  
**TOPIC: NUMBERS**  
**SUB-TOPIC: CUBE NUMBERS**  
**SET-1-QP-MS**

**1** Written as the product of its prime factors,  $540 = 2^2 \times 3^3 \times 5$ .

(c)  $540n$  is a cube number.

Find the smallest possible value of  $n$ .

..... [1]

**MARK SCHEME:**

$50$ or $2 \times 5^2$	<b>1</b>	
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**2**  $ap$  is a cube number.

Find the smallest integer value of  $p$ .

*Answer(b)* ..... [1]

**MARK SCHEME:**

| 45

| **1** |

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**3**

21    24    25    27    29    39    48

From the list of numbers, write down

(b)    the cube number.

..... [1]

**MARK SCHEME:**

	27 only	<b>1</b>	
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**4**

Work out.

(a)  $(0.2)^3$

..... [1]

**MARK SCHEME:**

**(a)** | 0.008

| **1** |