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 2×5^2	**1**	

2   *ap* is a cube number.

Find the smallest integer value of *p*.

Answer(b) .... [1]

45 | 1

3

$$21 \quad 24 \quad 25 \quad 27 \quad 29 \quad 39 \quad 48$$

From the list of numbers, write down

(b)   the cube number.

.... [1]

MARK SCHEME:

)	27 only	**1**	

4 Work out.

(a) $(0.2)^3$

.... [1]

MARK SCHEME:

(a) | 0.008 | | 1 |