Nombre:	Fecha:
<b>1.</b> (1p) Read the powers and their calculated values: $a$ ) 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
<b>2.</b> (1p) Find the number $x$ : $a) x^3 = 125 b) 3^x = 81$	c) $x^6 = 64$ d) $4^x = 256$
3. (1p) Expresa, usando potencias de 10:	
a) Mil seiscientos millones b) Tresciento cuarenta mil bi	pillones
4 (4 ) 177 (4 ) 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
4. (1p) Write the number 23709215 in expanded form using	g powers of ten:

<b>5.</b> (2p) Write as a single power, if possible:	
a) $(4^7 \cdot 4^4) \cdot (4^8 \div 4^7)$ b) $2^{15} \div 2^7 \cdot 2^3$ c) $(7^3)^4$	$(3^6)^2$ $d)(3^6 \cdot 4^6) \div (18^6 \div 3^6)$
6. (1p) Calculate the value of the following powers:	$a) 0^1 \qquad b) 1^1 \qquad c) 1^0 \qquad d) 0^0$
	_
7. (1p) Read the root and its calculated value: $\sqrt{169}$	
8. (1p) Calculate $\sqrt{700}$ (integer root)	
0 (1 ) 37 1 1 1 1 1 0 0 4 4 1	'41 · 1
<b>9.</b> (1p) You have one hundred and fifty square tiles we the largest squaerd floor space you can cover without	
The state of the s	
*. (1p) Escribe: $a$ ) 1966 En números romanos	) CDLXXIV en númeración decimal

- 1. (1p) a)  $12^2 = 144$  Twelve squared is one hundred and forty-four.
  - b)  $9^3 = 729$  Nine cubed is seven hundred and twenty-nine
  - c)  $7^4 = 2401$  Seven to the fourth power is two tousand four hundred and one.
  - d)  $2^5 = 32$  Two to the fifth power is thirty-two.
- **2.** (1p) a) x = 5 b) x = 4 c) x = 2 d) x = 4
- **3.** (1p) a)  $1.600.000.000 = 16 \cdot 10^8$  b)  $340.000.000.000.000.000 = 34 \cdot 10^{16}$
- **4.** (1p)  $2 \cdot 10^7 + 3 \cdot 10^6 + 7 \cdot 10^5 + 9 \cdot 10^3 + 2 \cdot 10^2 + 1 \cdot 10^1 + 5 \cdot 10^0$
- **5.** (2p) a)  $4^{12}$  b)  $2^{11}$  c)  $21^{12}$  d)  $2^6$
- **6.** (1p) a) 0 b) 1 c) 1 d) Indeterminate
- 7. (1p)  $\sqrt{169} = 13$  The square root of one hundred and sixty-nine is thirteen.
- **8.** (1p)  $26^2 = 676 \implies \sqrt{700} = 26$ , R = 700 676 = 14
- **9.** (1p)  $12^2 = 144 \implies \sqrt{150} = 12, R = 6$

You can cover a squared floor with sides  $12 \cdot 25 = 300 \ cm \ (3 \ m)$ .

The squared space is  $3^2 = 9 m^2$ 

There are 6 tiles left

\*. (1p) a) CMMLXVI b) 474