Square and cube numbers

1 Use counters to show that 4, 9 and 16 are square numbers.

Draw your answers.

2 Match the representations to the labels.



4 cubed



3 squared



4×4

4^2

2^3

3 Here is a $2 \times 2 \times 2$ cube made of 8 small cubes.



How many small cubes do you need to build a $3 \times 3 \times 3$ cube?

4 Complete the table.

2^2	2×2	4
2^3	$2 \times 2 \times 2$	
3^2		
3^3		
$\square^2$		25
	$5 \times 5 \times 5$	

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5 Write <, > or = to complete the statements.

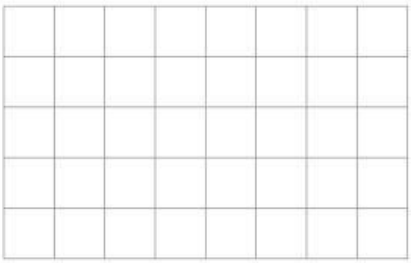
2 squared ◯ 2 cubed

2 squared ◯ 2 × 2

2 squared ◯ 4

2 squared ◯ 1 cubed

6 Draw 3 straight lines to split this grid into 3 squares and 1 rectangle.



7 Find four square numbers between 100 and 200

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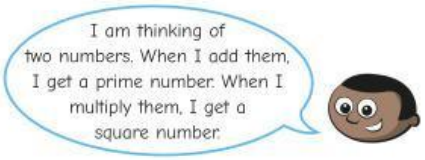
8 Dexter works out 20 squared.

Annie works out 20 cubed.

Find the difference between Dexter's and Annie's numbers.

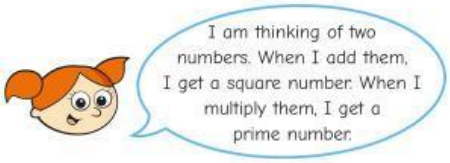
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9 a)



What numbers could Mo be thinking of?

b)



What numbers could Alex be thinking of?

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