

Cube Numbers

Cube Numbers

1a. Circle the odd one out.

$$3^3 + 23$$

$$4^3 - 14$$

$$2^3 + 32$$

Explain your reasoning.



R

1b. Circle the odd one out.

$$5^3 - 25$$

$$1^3 + 90$$

$$4^3 + 36$$

Explain your reasoning.



R

2a. Mo says,



The number
125 is a cube
number.

Is he correct? Prove it.



R

2b. Bella says,



The number
27 is a cube
number.

Is she correct? Prove it.



R

3a. Solve the word problem below.

I am thinking of a number.

If I cube my number, then add 7, I get
another cube number.

What number am I thinking of?



PS

3b. Solve the word problem below.

I am thinking of a number.

If I cube my number, then take away 37, I
get another cube number.

What number am I thinking of?



PS

Cube Numbers

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4a. Circle the odd one out.

$$7^3 + 157$$

$$10^3 - 350$$

$$9^3 - 229$$

Explain your reasoning.



R

4b. Circle the odd one out.

$$11^3 + 210$$

$$9^3 - 384$$

$$6^3 + 129$$

Explain your reasoning.



R

5a. Ivan says,



The number
1,728 is a
cube number.

Is he correct? Prove it.



R

5b. Kayleigh says,



The number
733 is a cube
number.

Is she correct? Prove it.



R

6a. Solve the word problem below.

I am thinking of a number.

If I cube my number, then add 271, I get
another cube number.

What number am I thinking of?



PS

6b. Solve the word problem below.

I am thinking of a number.

If I cube my number, then take away 169,
I get another cube number.

What number am I thinking of?



PS

Cube Numbers

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7a. Circle the odd one out.

$$11^3 - 3^2$$

$$6^3 - 12^2$$

$$2^3 + 8^2$$

Explain your reasoning.



R

7b. Circle the odd one out.

$$10^3 + 712$$

$$12^3 - 4^2$$

$$9^3 + 9^2$$

Explain your reasoning.



R

8a. Danny says,



The answer to
 $12^3 - 12^2$ is a
cube number.

Is he correct? Prove it.



R

8b. Kiran says,



The answer to
 $8^3 + 11^2$ is a
cube number.

Is she correct? Prove it.



R

9a. Solve the word problem below.

I am thinking of a number.

If I cube my number, then add the square number, I get the answer 810.

What number am I thinking of?



PS

9b. Solve the word problem below.

I am thinking of a number.

If I cube my number, then take away the square number, I get the answer 1,210.

What number am I thinking of?



PS