Ring the square numbers.

1    49    4    17    36    89    144

75    101    81    123    46    9

100    25    66    16    121    12    64

Ring the cube numbers.

1    12    343    8    1000    125

89    81    50    64    27    1200    9

729    42    216    100    512

Match the squared and cube numbers.

| | | |
|---|---|---|
| $2^2$ | 49 | $1^3$ |
| $6^2$ | 25 | |
| $3^2$ | 121 | $4^3$ |
| $7^2$ | 216 | |
| $11^2$ | 144 | $6^3$ |
| $9^2$ | 16 | |
| $12^2$ | 64 | $3^3$ |
| $1^2$ | 125 | |
| $4^2$ | 1 | $2^3$ |
| $5^2$ | 81 | |
| $8^2$ | 9 | $5^3$ |
| | 27 | |
| | 36 | |
| | 8 | |
| | 4 | |

Write each number in its correct place on the diagram.

6    15    27    64

cube → even → [ ]

cube → not even → [ ]
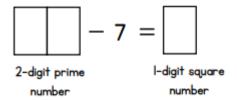
start → cube, not cube

not cube → even → [ ]

not cube → not even → [ ]

Find all the prime numbers between 10 and 100, sort them in the table below.

| End in a 1 | End in a 3 | End in a 7 | End in a 9 |
|---|---|---|---|
|  |  |  |  |

Why do no two-digit prime numbers end in an even digit?

Why do no two-digit prime numbers end in a 5?

Write a digit in each box to complete the number sentence.

$$\boxed{\phantom{0}|\phantom{0}} - 7 = \boxed{\phantom{0}}$$

2-digit prime number        1-digit square number

Dora is thinking of a two-digit number that is both a square and a cube number. What number is she thinking of?

Teddy's age is a cube number.

Next year his age will be a square number.

How old is he now?

The sum of a cube number and a square number is 150
What are the two numbers?