

Investigating Square and Cube Numbers

(a) Write each of these square numbers as a product of its prime factors.

25	49	36
100	81	225

What do you notice?

(b) Write each of these cube numbers as a product of its prime factors

125	64	1000

What do you notice?

(c) By using what you have discovered, decide if each of these numbers is a square number, a cube number, both or neither.

324	512	441
200	729	216