

Chapter 2 Squares, square roots, cubes and cube roots.

2.1 Squares of number

Note

1. Square = a number is the product of the number by itself.

Eg: $2^2 = 2 \times 2 = 4$, $3^2 = 3 \times 3 = 9$, $4^2 = 4 \times 4 = 16$

2. The square of any answer is always positive because:

Eg: positive with positive $\rightarrow 5^2 = (+5) \times (+5) = (+25)$

negative with negative $\rightarrow -6^2 = (-6) \times (-6) = (+36)$

3. The fraction in the square Eg: $(\frac{3}{4})^2 = \frac{3 \times 3}{4 \times 4} = \frac{9}{16}$

4. The decimal place in the square Eg: $0.0\bar{7}^2 = 0.0\bar{4}\bar{9}$

5. Perfect square = the answer of square number

Eg: $1^2, 2^2, 3^2, 4^2, 5^2 = 1, 4, 9, 16, 25$

6. Prime factorization = determine the number is a perfect square.

$$\begin{aligned} 676 &= 2 \times 2 \times 13 \times 13 \\ &= (2 \times 13) \times (2 \times 13) \\ &= 26 \times 26 \\ &= 26^2 \end{aligned}$$

Exercise 2.1

1. Write the following square notation.

a) $4 \times 4 =$

d) $(\frac{4}{9}) \times (\frac{4}{9}) =$

b) $17 \times 17 =$

e) $-3.8 \times (-3.8) =$

c) $-6 \times (-6) =$

f) $5.2 \times 5.2 =$

2. Calculate the following.

a) $-7^2 =$	b) $9^2 =$	c) $-12^2 =$
d) $(\frac{7}{9})^2 =$	e) $(-\frac{4}{11})^2 =$	f) $(2\frac{1}{4})^2 =$
g) $0.03^2 =$	h) $-15^2 =$	i) $2.4^2 =$

3. List the perfect square in each of the following.

a) Between 100 and 200

b) Less than 70

c) Between 200 and 300

d) Between 300 and 450

e) First 5

4. Determine whether each of the following number is a perfect square.

a) 150n	b) 289n	c) 330n
d) 484n	e) 735n	f) 1225n
g) 225n	h) 555	i) 256n

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Didier Musso



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