

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:  $0.0\dot{7}^2 = 0.0\dot{4}9$

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.

- Between 100 and 200
- Less than 70
- Between 200 and 300
- Between 300 and 450
- 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) $256n$

I like my math everyday:

Prepared by Kelvin

Other subtopic refer (pg \_\_\_\_)

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