

## C7 LESSON: $X^2$ SQUARE

Definition:  $A^2 = A \times A$ ...we say: **A squared**

$$5^2 = 5 \times 5 = 25 \quad (7.4)^2 = 7.4 \times 7.4 = 54.8$$

An easier way to get this is the  $\underline{x}^2$  key

7.4x2 yields 54.8 (or 54.76 depending on the **FIX**.)

This is handy for larger numbers.

543.7 squared is simply 543.7  $\underline{x}^2 = 295609.69$

You must supply the commas: 295,609.69

**Very quick and easy and used a lot in practical math.**

**NOTE:**  $(-A)^2 = A^2$  -5  $\underline{x}^2 = 25$  So  $\underline{x}^2$  result is always positive.

## C7 Exercise

$x^2$	SQUARE	ANSWERS: [ ]'S
1. What is the definition of $A^2$ ?		[AxA]
2. Where is the $x^2$ Key on the TI 30XA?		[3 down middle]
3. $(137.4)^2 = ?$		[18878.76 or 18,878.76]
4. $(6.2)^2 = ?$		[38.44]
5. $(-8.7)^2 = ?$		[75.69]
6. $(3.4 + 8.7)^2 = ?$		[146.41]
7. $(5^2)^2 = ?$		[625]
8. $(78 \div 3.3)^2 = ?$		[558.7]
9. Can $A^2$ be negative?		[No]
10. $7^2 - 3^2 = ?$		[40]
11. $(((((2)^2)^2)^2)^2)^2 = ?$		[4,294,967,296]

**Play with  $x^2$  Key until you have mastered it.**

## C7 Exercise Supplement

$x^2$	SQUARE	ANSWERS: [ ]'S
1. $(92.56)^2 = ?$		[8567.35]
2. $(16.2)^2 = ?$		[262.4]
3. $(-75.7)^2 = ?$		[5730.5]
4. $(4.3 + 6.7)^2 = ?$		[121]
5. $(7^2)^2 = ?$		[2401]
6. $(478 \div 23.3)^2 = ?$		[420.9]
7. Can $A^2$ be 0?		[Yes, $0^2 = 0$ ]
8. $8^2 - 12^2 = ?$		[-80]
9. $(((((2.05)^2)^2)^2)^2)^2 = ?$		[9,465,063,976]
<b>Compare to #11 on previous page!</b>		
10. $(2\frac{3}{4})^2 = ?$		[ $7\frac{9}{16} = 12\frac{1}{16} = 7.5625$ ]

**Play with  $x^2$  Key until you have mastered it.**