

Switching Off!

- Your calculator will automatically switch off after 10 minutes
- To make your battery last longer switch it off yourself...



- Check now that you can switch your calculator on and off

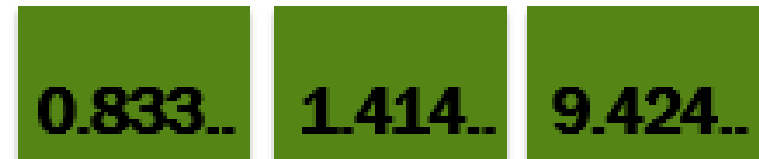
Getting Decimal Answers

- If you get answers like these:

Three dark green rectangular boxes representing calculator displays. The first box contains the fraction $\frac{5}{6}$. The second box contains the square root symbol followed by the number 2, $\sqrt{2}$. The third box contains the number 3 followed by the Greek letter pi, 3π .

- Change them into decimals using this button:



Three dark green rectangular boxes representing calculator displays. The first box contains the decimal $0.833..$. The second box contains the decimal $1.414..$. The third box contains the decimal $9.424..$.

- You will need to remember to use this button for a number of calculations, look out for

Using Brackets ()

- Type the following calculation into your calculator:

(5 + 2) X 6

- Check that you get this:

$(5+2) \times 6$

42

- Q)** Using your calculator decide where you should put brackets to make this calculation work..

$$10 \div 2 + 3 \times 6 - 2 = 10$$

BIDMAS on the Calculator

- Type the following calculation into your calculator:

5 + 2 X 6

- Check that you get this:

$5+2 \times 6$

17

- Q)** Does your calculator know the rules of BIDMAS? _____
Give another calculation to prove this: _____

Squared Numbers ²

- The square of a number is the number multiplied by itself
- Your calculator has a button for doing this quickly: x^2
- Find the square of 17 by typing..

1 **7** x^2

- Check that you get:

$$17^2 = 289$$

Q) What is 2.5^2 ? _____

Square Roots $\sqrt{\quad}$

- Your calculator also has a button for finding the square root of a number: $\sqrt{\quad}$
- Find the square root of 300 by typing.. $\sqrt{\quad}$ **3** **0** **0**
- Check that you get:

$$\sqrt{300} = 17.32050808$$



Q) What is $\sqrt{56}$? _____

Cubed Numbers ³

- The cube of a number is the number multiplied by itself twice
- Your calculator has a button for doing this quickly: x^3

- Find the cube of 17 by typing..

1 **7** x^3

- Check that you get:

17^3
4913

Q) What is 2.5^3 ? _____

Cubed Roots ³√

- Your calculator also has a *shift* function for finding the square root of a number: $\sqrt[3]{\blacksquare}$

- Find the cubed root of 3 by typing..


SHIFT $\sqrt{\blacksquare}$ **3**

- Check that you get:

$\sqrt[3]{3}$
1.44224957

Q) What is $\sqrt[3]{56}$? _____

Using the Ans Button

- The Ans button can be used to put an answer you have just found back into your next calculation 

- Start by calculating $5^2 - 6$

- If $x = 5^2 - 6$, calculate $x^2 - x$

- Type in:    

- Check that you get:


Ans² - Ans

342



E If $x = 2^2 + 3$, what's $x^2 - x$? _____

Different Powers

- You can use your calculator to find any power of a number, using this button: 

- Find 12 to the power of 5 by typing..

- Check that you get:

12^5


248832

Q) What is 2.5^{11} ? _____



E What is $14^{1/2}$? _____

Negative Numbers

- You should input negative numbers into your calculator using: 

- To enter -4×-2 type..

- Check that you get:

 **8**

Q) What is -5.4×-2.1 ? _____



E Calculate -4^2 ? _____

NB. Use brackets!