i can Calc

1. I can write down which buttons to press to change the mode of a calculator between *Line10* and *Mth10*.

2. I can write down which button to press to change a given answer between *maths mode* and *decimal mode*.

3. I can write down instructions for how to check if a calculator is in *degrees mode* and how to change it into *degrees mode* if necessary.

4. I can use the π button on my calculator to find the area of a circle of radius 5cm.

5. I can use my calculator to cancel down the fraction $\dfrac{143}{169}$.

6. I can use my calculator to add the fractions $1\dfrac{3}{7} + 2\dfrac{3}{8}$.

7. I can use my calculator to square 6.1 and cube 3.2.

8. I can use my calculator to find the square root of 200 and the cube root of 500.

9. I can use my calculator to calculate $\dfrac{8.7 \times \sqrt{150}}{9.5 - 5.73}$.

10. I can use my calculator to multiply the numbers $3 \times 10^7 \times 4 \times 10^{-6}$ and write the answer in standard form.

11. I can use my calculator to find $3a^2$ when $a = -4$.

12. I can use my calculator to calculate $x = \dfrac{-(-6) + \sqrt{(-6)^2 - 4 \times -5 \times 7}}{2 \times 7}$.

13. *I can use my calculator to simplify the surd $12\sqrt{8}$.

14. *I can use my calculator to rationalise the denominator of $\dfrac{\sqrt{3}}{1 + \sqrt{3}}$.

15. *I can use my calculator to find the reciprocals of 9 and $\dfrac{3}{5}$.

16. *I can use my calculator to solve $\sin x = 0.8$ and $\tan x = \dfrac{4}{5}$.

17. *I can use my calculator to work out $25^{\frac{-3}{2}}$.

18. *I can use my calculator to find x_4 when $x_{n+1} = \dfrac{2}{5}x - 3$ and $x_1 = 4$.

*GCSE Higher tier functions.

i can Calc - Answers

1. I can write down which buttons to press to change the mode of a calculator between *Line10* and *Mth10*.   ‘SHIFT SETUP 2’ and ‘SHIFT SETUP 1’

2. I can write down which button to press to change a given answer between *maths mode* and *decimal mode.* S⇔D

3. I can write down instructions for how to check if a calculator is in *degrees mode* and how to change it into *degrees mode* if necessary.

    Look for D in top of screen, press ‘SHIFT SETUP 3’ if necessary

4. I can use the π button on my calculator to find the area of a circle of radius 5cm.

    78.53981634

5. I can use my calculator to cancel down the fraction $\dfrac{143}{169}$. $\dfrac{11}{13}$

6. I can use my calculator to add the fractions $1\dfrac{3}{7}+2\dfrac{3}{8}$. $\dfrac{213}{56}=3\dfrac{45}{56}$

7. I can use my calculator to square 6.1 and cube 3.2. 37.21, 32.768

8. I can use my calculator to find the square root of 200 and the cube root of 500.

    14.14213562 and 7.93700526

9. I can use my calculator to calculate $\dfrac{8.7\times\sqrt{150}}{9.5-5.73}$. 28.26334319

10. I can use my calculator to multiply the numbers $3\times10^7\times4\times10^{-6}$ and write the answer in standard form. $120=1.2\times10^2$

11. I can use my calculator to find $3a^2$ when $a=-4$. 48

12. I can use my calculator to calculate $x=\dfrac{-(-6)+\sqrt{(-6)^2-4\times-5\times7}}{2\times7}$. $\dfrac{3+2\sqrt{11}}{7}=1.376178512$

13. *I can use my calculator to simplify the surd $12\sqrt{8}$. $24\sqrt{2}=33.9411255$

14. *I can use my calculator to rationalise the denominator of $\dfrac{\sqrt{3}}{1+\sqrt{3}}$. $\dfrac{3-\sqrt{3}}{2}=0.6339745962$

15. *I can use my calculator to find the reciprocals of 9 and $\dfrac{3}{5}$. $\dfrac{1}{9}=0.1\dot{1}$ and $\dfrac{5}{3}=1.6\dot{6}$

16. *I can use my calculator to solve $\sin x = 0.8$ and $\tan x = \dfrac{4}{5}$.

$$\boxed{53.13010235 \text{ and } 38.65980825}$$

17. *I can use my calculator to work out $25^{\frac{-3}{2}} \cdot \boxed{\dfrac{1}{125} = 8 \times 10^{-3} = 0.008}$

18. *I can use my calculator to find x_4 when $x_{n+1} = \dfrac{2}{5}x - 3$ and $x_1 = 4$. $\boxed{x_4 = -4.424}$

*GCSE Higher tier functions.