



Using a Calculator Exam Practice

Q1. Find $1.6^2 + 14.7^3$, writing down all the figures on your calculator display.

(1 mark)

Q2. Evaluate to 2 decimal places: $0.06^4 + \sqrt{43}$

(2 marks)

Q3. Find the value of $10\cos(40)$ correct to 1 decimal place.

(2 marks)

Q4. Find the value of $\frac{\sin(50) + \cos(50)}{\sqrt{0.092}}$ correct to 2 decimal places

(2 marks)

Q5. What is the value $20\cos(35)\sin(38)$ to 1 decimal place?

(2 marks)

Q6. Evaluate $12^{\sqrt{5.6}}$. Give your answer correct to 3 significant figures.

(2 marks)

Q7. Find the value of $\frac{13.25}{\sqrt{93.247}} + \frac{24}{\tan(2.1)}$ correct to 2 decimal places

(2 marks)

Q8. a) Write down all the figures on your calculator display

$$\sin(40) - \frac{\sqrt{3.26 + 189.429}}{8.17}$$

(1 mark)

b) Write your answer to part (a) correct to 1 decimal place.

(1 mark)

Q9. a) Write down all the figures on your calculator display

$$3\sqrt{45.2} - \frac{8.41^3}{\sqrt{3.26 + 189.429}} + \cos(89.2)$$

(1 mark)

b) Write your answer to part (a) correct to 2 decimal places.

(1 mark)



Applied Mixed Practice Problems

Q10. Ron says that $\cos(42)\cos(50) - \sin(42)\sin(50) - \sin(92) = 0$.
How far out, to 1 decimal place, is he in his calculation?

(2 marks)

Q11. Let $A = 4.6^2 - 7.1^2$ and $B = \sqrt{30.1}$

Work out $B^2 - 2A$, giving your answer to 2 decimal places.

(2 marks)

Q12. Let $A = \frac{4}{5+\cos(40)}$ and $B = 5.2^3$

Work out $3A + 2B$, giving your answer to 2 decimal places.

(2 marks)

Q13. Order the following expressions from smallest to largest, justifying your choice.

$$4.6^2 + 7.1\sin(75), \quad \sqrt{790.13}, \quad \sin(\sin(80))$$

(2 marks)

Q14. Order the following expressions from largest to smallest, justifying your choice.

$$\sin(6.6^2) \div (7.1\sin(75) \times \frac{34}{897}), \quad \tan(80.2), \quad \frac{\sqrt{3}}{0.000789}$$

(3 marks)

Q15. Michael wishes to evaluate the expression, $\frac{5+\sin(30)}{\sqrt{400}-20}$, using his calculator. State the problem he will run into and why it occurs.

(2 marks)

Q16. Work out the value of:

$$20 - \frac{4}{\frac{\sin(35)}{5+\tan(3)}}$$

Give your answer to 3 decimal places.

(2 marks)