N50 Calculator Display Questions

OCR

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8 (a) Calculate $\sqrt[3]{58^2 + 11}$.

(a)[2]

(b) Work out the number of seconds in a year.

(b)[2]

(a) Calculate $\sqrt[3]{58^2 + 11}$.



(b) Work out the number of seconds in a year.

min
$$\times$$
 hr \times day \times Year $60 \times 60 \times 24 \times 365$ (b) $31.536.000$ [2]

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10 (a) Put brackets into these calculations so that the answer is correct.

(i)
$$70 - 25 \div 9 \times 3 = 15$$

[1]

(ii)
$$6 \times 8 - 5 + 14 = 32$$

[1]

(b) Calculate.

$$\frac{46.3 + 89.4}{15 - 3.1^2}$$

Give your answer correct to 3 significant figures.

...... [2]

10 (a) Put brackets into these calculations so that the answer is correct.

(i)
$$(70-25) \div 9 \times 3 = 15$$
 [1]
 $45 \div 9 \times 3 = 15$

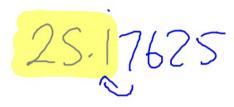
(ii)
$$6 \times (8-5) + 14 = 32$$

$$6 \times 3 + 14 = 32$$
[1]

(b) Calculate.

$$\frac{46.3 + 89.4}{15 - 3.1^2}$$

Give your answer correct to 3 significant figures.





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9	(a)	(i)	By rounding each number correct to 1 significant figure, estimate the value of the following. Show all your working.
			$\frac{12.3 + 7.92}{9.6 \times 0.625}$

(a)(i)[2]

(ii) Work out.

$$\frac{12.3 + 7.92}{9.6 \times 0.625}$$

Give your answer correct to 1 decimal place.

(ii)[2]

(a) (i) By rounding each number correct to 1 significant figure, estimate the value of the following. 9 Show all your working.

$$\frac{12.3 + 7.92}{9.6 \times 0.625}$$

$$\frac{10+8}{10\times0^{16}} = \frac{18}{6} = 3$$

(a)(i)

Work out.

$$\frac{12.3 + 7.92}{9.6 \times 0.625}$$

Give your answer correct to 1 decimal place.



(ii)

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3 Calculate.

$$NSO$$
 (a) $\frac{3.6}{1.2-0.3}$

(a)[1]

3 Calculate.

$$NSO$$
 (a) $\frac{3.6}{1.2-0.3}$

$$\frac{3.6}{0.9} = 4$$

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(b) $\sqrt{12.25^3}$ Give your answer correct to 1 decimal place. N26

(b)[2]

(b) $\sqrt{12.25^3}$

N26

Give your answer correct to 1 decimal place.

42.875

(b) 42-7 [2]

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Calculate.

(a)
$$\sqrt{\frac{4.8^2 + 3.6^2}{4}}$$

(a)[2]

1 Calculate.

NSO

(a)
$$\sqrt{\frac{4.8^2 + 3.6^2}{4}}$$

(a) _____[2]

Edexcel

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15 (a) Work out $\frac{4.36 + 2.8^3}{6.8 - 5.42}$

Give your answer as a decimal.

Write down all the digits on your calculator display.

(2)

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

(1)

(Total for Question 15 is 3 marks)

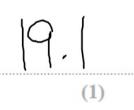
15 (a) Work out
$$\frac{4.36 + 2.8^3}{6.8 - 5.42}$$

Give your answer as a decimal.

Write down all the digits on your calculator display.



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



(Total for Question 15 is 3 marks)

19 (a) Use your calculator to work out th	e value of	Video created by W Neill
N50	$\sqrt{\frac{51.2 - 37.38}{9.67 + 84.9}}$	
Write down all the digits on your o	calculator display.	
(b) Write your answer to part (a) co	orrect to 2 significant figures.	(2)
		(1)

19 (a) Use your calculator to work out the value of

N50

$$\sqrt{\frac{51.2 - 37.38}{9.67 + 84.9}}$$

Write down all the digits on your calculator display.

0.3822762587

(b) Write your answer to part (a) correct to 2 significant figures.

N27

0-38

(2)

12 Find the value of
$$\frac{\sqrt{13.4 - 1.5}}{(6.8 + 0.06)^2}$$

Write down all the figures on your calculator display.

.....

(Total for Question 12 is 2 marks)

12 Find the value of
$$\frac{\sqrt{13.4 - 1.5}}{(6.8 + 0.06)^2}$$

Write down all the figures on your calculator display.

0.07330359081

(Total for Question 12 is 2 marks)

8	(a)	Find the value of	$\sqrt{1.44 \times 3.61}$
N	SO		

(1)

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(b) Find the value of $(3.54 - 0.96)^2 - 4.096$ NSO

(2)

(2)

8 (a) Find the value of $\sqrt{1.44 \times 3.61}$ NSO

(b) Find the value of $(3.54 - 0.96)^2 - 4.096$

2.28

2.5604

(b) Work out $\frac{\sqrt{17+4^2}}{7.3^2}$

Write down all the figures on your calculator display.

.....

(b) Work out $\frac{\sqrt{17+4^2}}{7.3^2}$

Write down all the figures on your calculator display.

.....

7 (a) Find the reciprocal of 5

(b) Use your calculator to work out $\sqrt[3]{5} \tan 60^\circ + 1$ Write down all the figures on your calculator display.

7 (a) Find the reciprocal of 5

5

(b) Use your calculator to work out $\sqrt[3]{5} \tan 60^\circ + 1$ Write down all the figures on your calculator display.

2.129754359

9 Find the value of $\frac{(6.67 \times 10^{-11}) \times (7.35 \times 10^{22})}{(1.74 \times 10^{6})^{2}}$

Give your answer correct to 1 decimal place.

N48

N50

(Total for Question 9 is 2 marks)

9 Find the value of
$$\frac{(6.67 \times 10^{-11}) \times (7.35 \times 10^{22})}{(1.74 \times 10^{6})^{2}}$$

Give your answer correct to 1 decimal place.

N48 N50



1.6

(Total for Question 9 is 2 marks)

- 8 Use your calculator to work out $\sqrt{\frac{\sin 25^\circ + \sin 40^\circ}{\cos 25^\circ \cos 40^\circ}}$
 - (a) Write down all the figures on your calculator display.

(2)

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

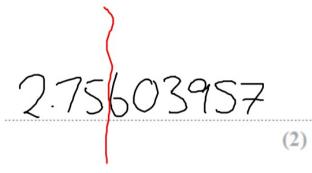
(1)

(Total for Question 8 is 3 marks)

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Use your calculator to work out $\sqrt{\frac{\sin 25^\circ + \sin 40^\circ}{\cos 25^\circ - \cos 40^\circ}}$

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



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

(Total for Question is 3 marks)

AQA

5 (a) NSO	Use your calculator to work out $\sqrt{701}$ as a decimal. Write down your full calculator display.	Video created by W Neill [1 mark]
	Answer	
5 (b) N 26	Give your answer to part (a) to 1 decimal place.	[1 mark]
	Answer	

		Video created by W Neill
5 (a) NSO	Use your calculator to work out $\sqrt{701}$ as a decimal. Write down your full calculator display.	[1 mark]
	Answer 26.47640459	
5 (b)	26.476 Give your answer to part (a) to 1 decimal place.	
NZP		[1 mark]
	Answer	

12 Work out $\sqrt{7.5^2 + 18^2}$

N50 Circle your answer.

[1 mark]

19.5 25.5 331.5 380.25

12 Work out $\sqrt{7.5^2 + 18^2}$

N50 Circle your answer.

[1 mark]



25.5

331.5

380.25

			Video created by W Neill	
13 (a)	Use your calculator to work out the exact value of	18 953 × 437		
N50		- 11	[1 mark]	
1450				
	Answer			
13 (b)	Use approximations to 1 significant figure to check	if your answer to	part (a) is sensible.	
N28			[3 marks]	
1420				

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Use your calculator to work out the exact value of 13 (a)

N50

[1 mark]

Answer

13 (b) Use approximations to 1 significant figure to check if your answer to part (a) is sensible.

[3 marks]

N28

$$\frac{20,000 \times 400}{10} = \frac{80000000}{10}$$

Yes, its not for 800,000 away so sensible.

			Vide	o created by W Neill
5 N50	Work out the value of	$3^6 - \sqrt{841}$		[2 marks]
	Answer			

5

Work out the value of $3^6 - \sqrt{841}$

[2 marks]

N50

36 = 729

1841 = 29

Answer

700

14 (a)	Use your calculator to work out	9.95 ² × 29	9.8	Vide	eo created by W Neill	
N50	Give your answer as a decimal. Write down your full calculator display	ay.			[1 mark]	
	Д	answer				
14 (b) N28	Is your answer to part (a) sensible Use approximations to decide. You must show your working.	?			[3 marks]	
	Tick a box.					
	Sen	sible		Not sensible		

14 (a) Use your calculator to work out $9.95^2 \times 29.8$

Give your answer as a decimal.

N50 Write down your full calculator display.

[1 mark]

Answer 2950.2745

- 14 (b) Is your answer to part (a) sensible?
- N28
 Use approximations to decide.
 You must show your working.

$$(0 \times 30)$$
 [3 marks] $(00 \times 30) = 3000$

Tick a box.



26 An approximation for the value of π is given by

N50

$$4\left(1-\frac{22}{57}+\frac{22}{85}-\frac{22}{105}+\frac{22}{117}-\frac{22}{242}\right)$$

Use your calculator to show that this approximation is within 0.1 of 3.14

[2 marks]

26 An approximation for the value of π is given by

N50

$$4\left(1-\frac{22}{57}+\frac{22}{85}-\frac{22}{105}+\frac{22}{117}-\frac{22}{242}\right)$$

Use your calculator to show that this approximation is within 0.1 of 3.14

[2 marks]