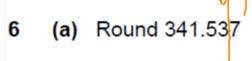
N26N27 Rounding to dp and sf

OCR

			Created by W Neill
6	(a)	Round 341.537	
		(i) to 2 decimal places,	
			(a)(i)[1]
		(ii) to 1 significant figure.	
			(ii)[1]



(i) to 2 decimal places,

(ii) to 1 significant figure.



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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]
 $45 \div 9 \times 3 = 15$

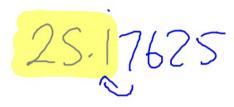
(ii)
$$6 \times (8-5) + 14 = 32$$

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

(b) Calculate.

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

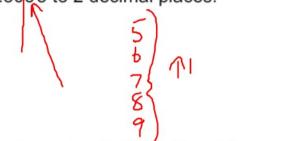
Give your answer correct to 3 significant figures.





9	(a)	Roi	and 7.3065 to 2 decimal places.	Video created by W Neill
	(b)	Roi	(a) ind each number to 3 significant figures.	[1]
	(~)	(i)	408 231	
		(ii)	(b)(i) 0.006 137 02	[1]
			(ii)	[1]

9 (a) Round 7.3065 to 2 decimal places.



(a) /- \(\sigma\) [1]

(b) Round each number to 3 significant figures.



(b)(i) 40800 [1]

(ii) 0.00<mark>6 13</mark>7 02

(ii) · · · · · · · · [1]

Created b	y W Neil
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3	a	Round	7874 to
-			

(i) the nearest hundred,

(ii) 1 significant figure.

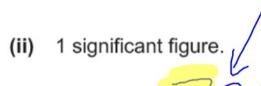
(b) Find the value of x.

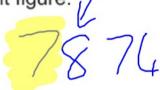
$$3^5 \times 3^2 = 3^x$$

(b)
$$x = \dots [1]$$









(b) Find the value of x.

$$3^5 \times 3^2 = 3^x$$

Created by	/ W Nei	
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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]

			Video created by W Neill
7	(a) Round 81.469 to 1 decimal place.		
	N26		
		(a)	[1]
		(-)	
	(b) Round 0.005 694 to 3 significant figures.		
	(b) Treating cross control of origination and anguiness		
	N27		
		(b)	[1]
		(2)	

Video created by W Neill

7 (a) Round 81.469 to 1 decimal place.

N26

(b) Round 0.005 694 to 3 significant figures.

N27

0.00569

0.005694

(b)

Edexcel

Created by W Neill

23
$$S = \pi^2(b^2 - a^2)$$

$$a = 8, b = 10$$

Calculate the value of *S*.

Give your answer correct to 3 significant figures.

(Total for Question 5 is 2 marks)

$$S = \pi^2(b^2 - a^2)$$

$$a = 8, b = 10$$

Calculate the value of *S*.

Give your answer correct to 3 significant figures.

$$S = \pi^{2}(100 - 64)$$

 $S = \pi^{2}(36) = 355.30$
 $S = \pi^{2}(36) = 355.30$

355

(Total for Question 5 is 2 marks)

Created	by	W	Neill	
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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)

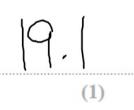
15 (a) Work out
$$\frac{4.36 + 2.8^3}{6.8 - 5.42}$$

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)

		Video created by W Neill
2	Write 7.26451 correct to 3 decimal places.	
		(Total for Question 2 is 1 mark)

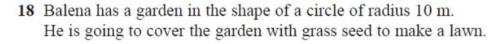
2 Write 7.264 51 correct to 3 decimal places.

¿ leque previous number alone

(Total for Question 2 is 1 mark)

5) 578 push it up 1

18	Balena has a garden in the shape of a circle of radius 10 m. He is going to cover the garden with grass seed to make a lawn. Grass seed is sold in boxes. Each box of grass seed will cover 46 m² of garden. Balena wants to cover all the garden with grass seed.		10 m	Video created by W1	Neill
	(a) Work out an estimate for the number of boxes of grass seed Balena	a needs.			
	You must show your working.				
		44			
			(4)		
	(b) Is your estimate for part (a) an underestimate or an overestimate? Give a reason for your answer.				



Grass seed is sold in boxes.

Each box of grass seed will cover 46 m² of garden.

Balena wants to cover all the garden with grass seed.

(a) Work out an estimate for the number of boxes of grass seed Balena needs. You must show your working.

Area of circle
$$...$$
 ITX r^2

$$3.142 \qquad 3 \times r$$

$$3 \times 10^2$$

$$3 \times 100 = 300 \text{ m}^2$$



10 m

(b) Is your estimate for part (a) an underestimate or an overestimate? Give a reason for your answer.

awn will be bigger need more boxes ... underestimate

		Video created by W Neill
2	Write 56.78 correct to one significant figure.	
		(Total for Question 2 is 1 mark)
_		(Total for Question 2 is 1 mark)

2 Write 56.78 correct to one significant figure.

5678

60

(Total for Question 2 is 1 mark)

		Video created by W Neill
23	A number, n , is rounded to 2 decimal places. The result is 4.76	
	Using inequalities, write down the error interval for n .	
		(Total for Question 23 is 2 marks)

	Video created by W Neill
Write 1.59 correct to 1 decimal place.	
N26	
	(Total for Question 2 is 1 mark)

23 A number, n, is rounded to 2 decimal places. The result is 4.76

Using inequalities, write down the error interval for n.

4.765

 $4.755 \le n < 4.765$

(Total for Question is 2 marks)

2 Write 1.59 correct to 1 decimal place.

N26

.59

1.6

(Total for Question 2 is 1 mark)

	Video Created by W Neill
20 () 111 / 7257	
20 (a) Write 7357 correct to 3 significant figures.	
N27	
	(1)

20 (a) Write 7357 correct to 3 significant figures.

N27

7357

7360

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	

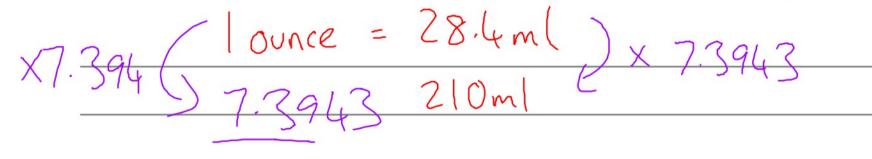
		Video created by W Neill
5 (a) NSO	Use your calculator to work out $\sqrt{701}$ as a decimal. Write down your full calculator display.	[1 mark]
	Answer 26.47640459	
5 (b)	26.476 Give your answer to part (a) to 1 decimal place.	
NSP		[1 mark]
	Answer 26-5	

		Video created by W Neill
11 (b) R26 N26	Convert 210 millilitres to fluid ounces. Use 1 fluid ounce = 28.4 millilitres Give your answer to 1 decimal place.	[2 marks]
	Answer	fluid ounces

Video created by W Ne	Video	created	bv	W	Nei
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- 11 (b) Convert 210 millilitres to fluid ounces.
- Use 1 fluid ounce = 28.4 millilitres
- N26 Give your answer to 1 decimal place.

[2 marks]



Answer / fluid ounces