THIRD SPACE LEARNING

GCSE Exam Questions

Rounding to Decimal Places | Number

GCSE Exam Questions: Rounding to Decimal Places

1) **(a)** Write 27.932 correct to two decimal places.

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(1)

(b) Write 3.1415927 correct to three decimal places

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(1)

(c) Write 286.976 correct to one decimal place.

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(1)

(d) Write -9.999 correct to two decimal places.

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(1)

(4 marks)

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2) Ben was subtracting some decimals on his calculator and the display showed the answer as 7.8469.
Ben needed to round his answer to two decimal places. He wrote his answer is 7.84.

Explain the mistake Ben has made in his rounding, and write the correct answer.

(2 marks)

GCSE Exam Questions: Rounding to Decimal Places

3) **(a)** Use a calculator to work out $\frac{4.6 \times 3.7}{\sqrt{6.2}}$

Write down all of the digits on your calculator screen

(2)

(b) Round your answer to part (a) to one decimal place.

(1)

(3 marks)

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4) The average price of electricity is 16.7p per kWh.

(a) Find the electricity bill of a household that uses 482kWh,
giving your answer in pounds to the nearest penny.

(2)

(b) Find the number of kWh a household has used if their electricity bill is £60.
Give your answer to one decimal place.

(2)

(4 marks)

GCSE Exam Questions: Rounding to Decimal Places Answers

	Question	Answer	Marks
1) (a)	Write 27.932 correct to two decimal places.	27.93	**(1)**
(b)	Write 3.1415927 correct to three decimal places.	3.142	**(1)**
(c)	Write 286.976 correct to one decimal place.	287.0	**(1)**
(d)	Write -9.999 correct to two decimal places.	-10.00	**(1)**
2)	Ben was subtracting some decimals on his calculator and the display showed the answer as 7.8469. Ben needed to round his answer to two decimal places. He wrote his answer is 7.84. Explain the mistake Ben has made in his rounding, and write the correct answer.	Ben rounded down when he should have rounded up. The answer should be 7.85.	**(1)** **(1)**
3) (a)	Use a calculator to work out $\frac{4.6\times3.7}{\sqrt{6.2}}$ Write down all of the digits on your calculator screen.	17.02 or 2.48997… **seen** 6.835396489	**(1)** **(1)**
(b)	Round your answer to part (a) to one decimal place.	6.8	**(1)**
4) **(a)**	The average price of electricity is 16.7*p* per kWh. Find the electricity bill of a household that uses 482kWh, giving your answer in pounds to the nearest penny.	$0.167\times482 = 80.494$ or $16.7\times482 = 8049.4$ £80.49	**(1)** **(1)**
(b)	Find the number of kWh a household has used if their electricity bill is £60. Give your answer to one decimal place.	$60 \div 0.167 = 359.281...$ 359.3kWh	**(1)** **(1)**