



Joyfulmathswithruth

Functional Skills and GCSE Foundation

Edexcel

Unit 1: Number Lesson 12 - Rounding and estimation

FS1

FS2

GCSE

iGCSE

To join in please bring:
A tape measure



Start thinking:

Thought experiment:



You are out walking, it is getting late and you need to set up camp.

There are good options you can see on your map that

you know for sure are safe, have a water supply and you will be able to build a fire for food.

Which one do you choose and why?



Rounding to whole numbers



5.23



Which whole number is the closest?

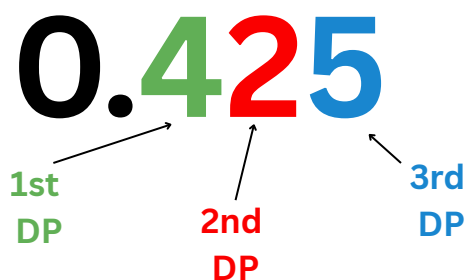
How do you know?

52

53

	53.1	52.78	
52.4			53.5
	52.8	52.55	
52.5			52.01

Rounding to decimal places



Spot the mistake

	1dp	2dp
0.031	0.0	0.04

Spot the mistake

	1dp	2dp
34.163	34.1	34.16

Spot the mistake

	1dp	2dp
0.031	0.0	0.04

Spot the mistake

	1dp	2dp
1.499	1.5	1.49

Rounding to significant figures

681.425

Most significant → (under 6)

Least significant → (under 5)


607000


54.203


5.00

Crown the significant zeros

209

301.70

0.506

2.008

0.0000003





Practice questions

At home:

Corbett Maths Rounding Practice:

<https://corbettmaths.com/wp-content/uploads/2013/02/round-to-nearest-number-pdf.pdf>

Answers:

<https://corbettmaths.com/2017/05/13/answers-rounding-to-the-nearest-integer/>

Transum rounding to whole numebrs, DP and significant figures:

https://www.transum.org/software/SW/Starter_of_the_day/Students/RoundingWN.asp?Level=1



Practice questions

At home:

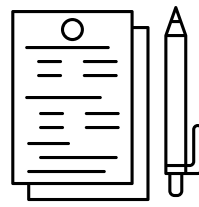
Corbett Maths Estimating calculations

<https://corbettmaths.com/wp-content/uploads/2018/10/Estimation-pdf.pdf>

Answers: <https://corbettmaths.com/wp-content/uploads/2018/10/Estimation-Answers-pdf-1.pdf>

Transum estimation of answers:

<https://www.transum.org/Maths/Exercise/Approximating/>



Exam questions

At home:

FS 1 and 2 and GCSE:

Maths Genie Videos:

<https://www.mathsgenie.co.uk/rounding.php>

Maths genie practice questions:

<https://www.mathsgenie.co.uk/resources/1-rounding.pdf>

Maths genie practice answers:

<https://www.mathsgenie.co.uk/resources/1-roundingans.pdf>

*****FS1 - Please be aware that these contain rounding to significant figures which you don't need for your assessment**