

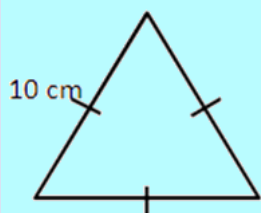
This week's topic focus is: **Sample Space Diagrams**

Please **complete all 4 tasks**. Go through the videos (Task2) first to support with this work. (submit your work via SMHW)

Starter: (TASK 1)

Quick 10 (no Calc)

- 11) Write down the factors of 72
- 2) Write in figures 'one hundred and twenty thousand'
- 3) Work out $298 + 187$
- 4) Work out $601 - 439$
- 5) Work out 54×9
- 6) Work out 14010×100
- 7) Simplify $aa - 3a + a$
- 8) Solve $x - 4 = 2$
- 9) Find the modal value: 2, 4, 4, 4, 7, 6, 6, 8, 8, 8, 8
- 10) Work out the perimeter of



Video on how to do it: (TASK 2)

You can choose which video you want to watch to refresh your memory on how to do frequency polygons

[Corbett Maths – Sample Space Diagrams](#)

Or

[You Tube – Sample Space Diagrams](#)

Practice Questions: (TASK 3)

You can **choose** which questions you want to use to practice **Sample Space Diagrams**. The links to the answers are also provided so you can check them when you are finished.

[sample space diagram](#)

Answers to check – frequency trees

[answers](#)

Or

Listing outcomes - MyMaths -

Log on with the details attached on show my homework and complete activity on frequency trees

Exam Question Practice: Foundation (Non-Calculator): (TASK 4)

Show any working out

1)

A pack of 20 toilet rolls costs £4.20.

A pack of 9 toilet rolls costs £2.16.

Which pack gives the better value for money?

Show how you decide.

2)

Connor buy a pack of 12 bottles of water.
The pack costs £3.12.

Connor sells all the bottles for 40p each.

Work out Connor's percentage profit.

Give your answer correct to 1 decimal place.

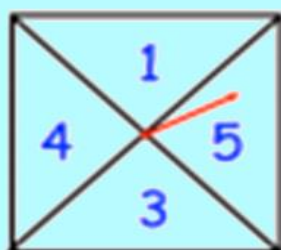
On the next page is an exam questions based on this topic. Do not worry if you can't answer all of the question, answer as much as possibly you.

3)

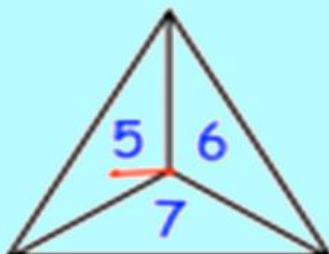
Two fair spinners are spun.

Spinner 1 has four equal sections labelled 1, 3, 4 and 5.

Spinner 2 has three equal sections labelled 5, 6 and 7.



Spinner 1



Spinner 2

Each spinner is spun once.

The numbers are added together to get a score.

(a) Complete the table to show all possible scores.

Spinner 1		1	3	4	5
Spinner 2	5				
	6				
	7				

(2)

(b) Find the probability of scoring a 8

.....
(1)

(c) Find the probability of scoring an odd number

.....
(1)