

- 1 The table below shows some data about women who have undergone IVF treatment at a certain clinic.

	Age of women			
	Under 35	35 - 37	38 - 39	40 +
No. of women treated	400	200	106	53
No. of single births	90	45	17	1
No. of twins	25	10	4	1

- 1 (a) Compare the success of **single** births between women **under 35** and women aged **35 to 37**.

The success is the same. [1]

Correct use of figures for under 35, e.g. 90 out of 400 or 90/400 [1]

Correct use of figures for 35 - 37, e.g. 45 out of 200 or 45/200 [1]

Or any calculation showing that 90 out of 400 [1] has the same proportion as 45 out of 200 [1].

[3 marks]

- 1 (a) (i) What percentage of women aged 35 - 37 had twins?

[2 marks]

10 / 200 [1]
5% [2]

As with most calculations on science papers, full marks for the correct answer with no working. But always show working as you could pick up some marks even if the final answer is wrong!

Answer 5%

- 1 (a) (ii) Give two disadvantages of IVF treatment.

[2 marks]

Any two from:

Low success rate or not always successful [1]

High number of multiple births or twins [1]

Expensive [1]

Stressful / emotional [1]

Side effects [1]

This requires knowledge of IVF, beyond the facts in the spec. The spec doesn't talk about cost, etc. BUT it does ask you to be able to evaluate information as in this question. Be aware of the points given in the answer.

- 1 (b) A woman will be infertile if her her body does not release enough follicle stimulating hormone (FSH).

Explain how injections of FSH could increase the chances of having a baby.

[3 marks]

FSH stimulates maturing of eggs [1]

so they can be released for fertilisation. [1]

Or the eggs can be collected IVF [1]

Also stimulates production of Oestrogen [1]

End

(Total 10 marks)