



Magali searches on the internet to find out more about the test results. She finds some data on a website <http://www.betabase.info/> Questions 4 to 5 refer to this data for hCG levels in pregnancies with a single embryo for mothers aged between 18-30.

**HGC level  
Scores for Successful\* Single Pregnancies  
Women Aged 18 To 30**

Days Past Ovulation	Median HCG Level	Lowest HCG Level Reported	Highest HCG Level Reported	Number of women reporting a number for this day
<a href="#">20</a>	1194	77	9279	456
<a href="#">21</a>	1659	89	13576	404
<a href="#">22</a>	2407	163	19861	340
<a href="#">23</a>	3354	207	22701	287
<a href="#">24</a>	4350	233	25947	240
<a href="#">25</a>	5391	321	29658	179
<a href="#">26</a>	6994	293	33900	151
<a href="#">27</a>	8799	268	42257	123
<a href="#">28</a>	11395	245	53945	100
<a href="#">29</a>	15129	224	62756	87
<a href="#">30</a>	18485	205	73007	73

\* Pregnancies are deemed successful if a heartbeat is detected.

Image source: <http://www.betabase.info>

4. Magali’s HCG level was reported as 10000 IU per litre. What is the most likely age since ovulation of Magali’s embryo baby?  
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5. Which of the days shown on the table could match Magali’s reading of 10000 UI/L  
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6. Why is there a difference of about two weeks between the lab results and the data in the table?  
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7. Explain the role of hCG during the early stages of a pregnancy.  
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8. Suggest how the level of hCG would be different in the early stages of a twin pregnancy. (i.e. with 2 embryos)  
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