

## Mitosis exam question

- Q1.** (a) How many pairs of chromosomes are there in a body cell of a human baby?

..... (1)

- (b) Place the following in order of size, **starting with the smallest**, by writing numbers **1 – 4** in the boxes underneath the words.

Chromosome                  nucleus                  gene                  cell (1)

- (c) For a baby to grow, its cells must develop in a number of ways.

Explain how each of the following is part of the growth process of a baby.

- (i) Cell enlargement

..... (1)

- (ii) The process of cell division by mitosis

.....  
.....  
.....  
.....  
.....  
..... (3)

- (d) Why is cell specialisation (differentiation) important for the development and growth of a healthy baby from a fertilised egg?

.....  
..... (2)  
(Total 8 marks)