AQA - Cell division - GCSE Biology

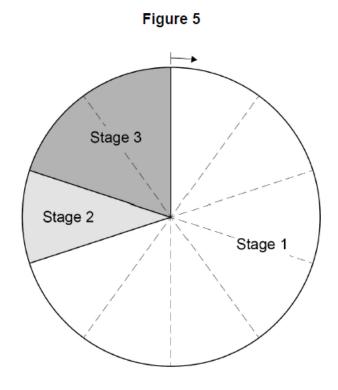
1. May/2020/Paper_1F/No.2

0 2 This question is about cell division.

Fertilisation

Mitosis

Figure 5 shows the three stages of a cell cycle.



0 2 . 2	Draw one line from each stage	e of the cell cycle to what happens during that stag [2 m	e. iarks]
	Stage of cell cycle	What happens during that stage	
	Stage 1	One set of chromosomes is pulled to each end of the cell	
	Stage 2	The cytoplasm and cell membrane divide to form two new cells	
	Stage 3	The cell grows and the chromosomes replicate	
0 2.3	What percentage of the total ti	time for the cell cycle is taken by stage 1? [2 m	narks]
		Percentage =	_ %
0 2.4	A cell divides to form two new How many days will it take for Tick (✓) one box.	the original cell to divide into 8 cells?	mark]
	1 3	6 8	

	Name the chemical which the genetic material is made from.	[1 mark]		
0 2 . 6	The genetic material is made of many small sections.			
	Each section codes for a specific protein.			
	What is one section of genetic material on a chromosome called? $\label{eq:tick} \mbox{Tick } (\checkmark) \mbox{ one box}.$	[1 mark]		
	A gamete			
	A gene			
	A nucleus			
0 2.7	Stem cells are cells which have not yet been specialised to carry out a particular job.			
	Bone marrow cells are one example of stem cells.			
	Explain how a transplant of bone marrow cells can help to treat medical conditions. [2 marks]			