

1 Most cells in the human body contain chromosomes.

1.1 How many pairs of chromosomes are there in a typical human body cell?

.....
[1 mark]

All of a human's genome is found within chromosomes.

1.2 Define the term **genome**.

.....
[1 mark]

Two chromosomes in each human body cell are sex chromosomes.

1.3 Describe how sex chromosomes differ between a male and a female.

.....
[2 marks]

Sperm cells only have one copy of each chromosome.

1.4 Which process causes sperm cells to only have one copy of each chromosome?
Tick **one** box.

- ☐ differentiation
☐ mitosis
☐ meiosis
☐ mutation

[1 mark]

1.5 During sexual reproduction, a sperm cell and an egg cell fuse together to form a new cell. Describe how this new cell develops into a new organism.

.....
[3 marks]

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