

Reproduction and meiosis: practice questions

1 questions • 4 marks • mark scheme at the back

For Edexcel GCSE Combined Science 1SC0. **Higher tier** is only on the Higher paper.

Name

Total / 4

- 1** A human body cell has 46 chromosomes. (a) State the number of chromosomes in a human egg cell. (1) (b) One cell divides by meiosis. State the number of daughter cells produced. (1) (c) Explain why the number of chromosomes in a human cell does not double each generation. (2) **[4 marks]**

Mark scheme

One mark for each point unless a maximum is given. Words in brackets are not needed for the mark.

1. [4]

- (a) 23 (1)
- (b) 4 (1)
- (c) gametes have half the number of chromosomes (1)
- fertilisation restores the full number (46) / the zygote gets 23 from each parent (1)