

- 29** A female with red-green colour blindness has a child with a male who does **not** have red-green colour blindness. The child is male.

What is the chance of this child having red-green colour blindness?

- A** 0% **B** 25% **C** 50% **D** 100%

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- 29** Which chromosomes can be found in a single sperm?

- A** X and X **B** X and Y **C** X or X **D** X or Y

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- 31** Polydactyly in cats is a dominant condition that causes affected cats to be born with extra toes.

What is the probability of two cats that are heterozygous for polydactyly having an offspring with **no** extra toes?

- A** 0.125 **B** 0.25 **C** 0.50 **D** 0.75

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- 30** Which name is given to different versions of a gene?

- A** allele
B chromosome
C length of DNA
D protein

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- 32** A man with blood group A and genotype $I^A I^O$ has a child with a woman who has blood group B and genotype $I^B I^O$.

What is the probability of the child having blood group O?

- A** 0.00 **B** 0.25 **C** 0.50 **D** 1.00