

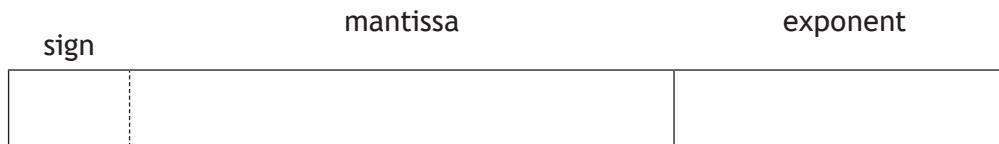
3. (a) Convert the binary number below into floating-point representation.

-0.0000 0101 0000 1111

There are 16 bits for the mantissa (including the sign bit) and 8 bits for the exponent.

3

*Space for working*



- (b) State the effect of increasing the number of bits allocated to the mantissa.

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