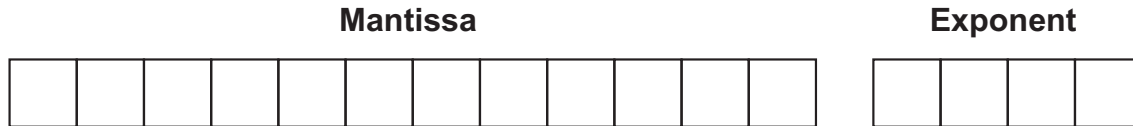


2 Numbers are stored in a computer using binary floating-point representation with:

- 12 bits for the mantissa
- 4 bits for the exponent
- two's complement form for both the mantissa and the exponent.

(a) Calculate the normalised binary floating-point representation of +124.4375 in this system. Show your working.



Working .....

.....

.....

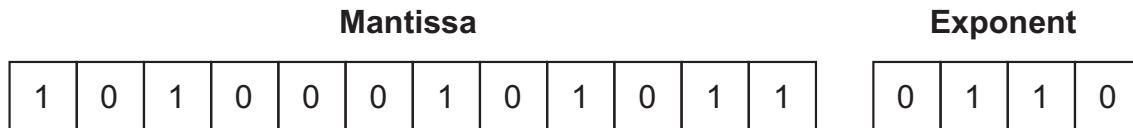
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[3]

(b) Calculate the denary value of the following normalised binary floating-point number. Show your working.



Working .....

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.....

.....

Denary value .....

[3]