

Grade 9 checklist

2 skills. Tick each one when you can do it. For grade 9 you need the skills for the grades below it too.

Data

- ☐ **Explain overflow when adding two's complement numbers** Two positive numbers with a total above +127 give a pattern with an MSB of 1, which reads as negative. (Binary addition and overflow)
- ☐ **Evaluate trade-offs between bits, quality and size** More bits give more range or precision but need more storage and take longer to transmit. (Limitations of binary representation)

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