

Q1. (2019)

- 14** Ali and Mel are making 3-digit codes.
The digit 0 is **not** used.
Ali only uses odd digits.
Mel only uses even digits.

(A)

- 14 (a)** Ali can make x more codes than Mel.
Assume that digits **cannot** be repeated.
Work out the value of x .

[3 marks]

(B)

- 14 (b)** In fact, digits **can** be repeated.
What does this tell you about the actual value of x ?
Tick **one** box.

[1 mark]☐

It is bigger than my answer to part (a)

☐

It is smaller than my answer to part (a)

☐

It is the same as my answer to part (a)

Q2. (2020)

- 16** On a restaurant menu there are
22 main dishes, of which $\frac{4}{11}$ are gluten-free
7 rice dishes, which are all gluten-free
5 naan breads, of which 40% are gluten-free.

This Meal Deal is on the menu.

Choose one main dish, one rice dish and one naan bread

How many of the possible Meal Deals are totally gluten-free?

[3 marks]