Do not write outside the box

22 Here is some information about 20 trains leaving a station.

Number of minutes late, t	**Number of trains**	**Midpoint**	
$0 \leqslant t < 5$	12		
$5 \leqslant t < 10$	7		
$10 \leqslant t < 15$	1		
$t \geqslant 15$	0		

22 (a) Work out an estimate of the mean number of minutes late.

[3 marks]

AQ22A

Answer _____ minutes

Do not write outside the box

22 (b) The station manager looks at the information in more detail.

Number of minutes late, t	Number of trains
$0 \leqslant t < 2$	12
$2 \leqslant t < 4$	0
$4 \leqslant t < 6$	7
$6 \leqslant t < 8$	0
$8 \leqslant t < 10$	0
$10 \leqslant t < 12$	1

He works out an estimate of the mean using this information.

How does his estimate compare with the answer to part (a)?
Tick **one** box.

[1 mark]

☐ Higher than part (a)

☐ Same as part (a)

☐ Lower than part (a)

☐ Not possible to tell

4