Conditional probability: two way tables

Exit ticket ANSWERS Name _____

	Yoga	Spin	Total
Morning	14	22	36
Evening	27	17	44
Total	41	39	80

1 A booking is chosen at random. Given that it is for the evening, which total do you divide by?

44

2 Find the probability that a booking is for yoga, given that it is for the evening.

$\frac{27}{44}$

3 Find the probability that a booking is for the morning, given that it is for spin.

$\frac{22}{39}$

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NEXT LESSON

1

	Yoga	Spin	Total
Morning	14	22	36
Evening	27	17	44
Total	41	39	80

A booking is chosen at random. Given that it is for the evening, which total do you divide by?

44

TESTS The group first: the given row, and its total

LOOK FOR 80 the whole table: "given that" picks one group

41 the Yoga column: a column total for a row

FIX IT Use the table. Given that a booking is for yoga, which total do you divide by? 41

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2 **Find the probability that a booking is for yoga, given that it is for the evening.**

$\frac{27}{44}$

TESTS Given a row: the cell over the row total

LOOK FOR $\frac{27}{80}$ over every booking, not just the evening ones

$\frac{27}{41}$ over the yoga total, not the evening total

FIX IT Use the table. Find the probability that a booking is for spin, given that it is for the morning. $\frac{22}{36} = \frac{11}{18}$

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3 **Find the probability that a booking is for the morning, given that it is for spin.**

$\frac{22}{39}$

TESTS Given a column: the cell over the column total

LOOK FOR $\frac{22}{36}$ over the morning total: look at the Spin column

$\frac{22}{80}$ over every booking

FIX IT Use the table. Find the probability that a booking is for the evening, given that it is for yoga. $\frac{27}{41}$