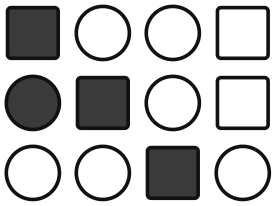
Conditional probability: two-way tables *lesson handout*

Show why

Sort the twelve tiles into the table.



	Shaded	Not shaded	Total
Square			
Circle			
Total			

We do

A visitor is chosen at random. **Given that** the visitor is a child, which group do you look at? Find its total.

	Morning	Afternoon	Total
Adult	28	17	
Child	14	22	
Total			

Look at _____ **Total** ☐

You do

A phone is chosen at random. **Given that** the phone has a case, which group do you look at? Find its total.

	Case	No case	Total
Black	18	7	
White	12	13	
Total			

Look at _____ **Total** ☐

You do

A pizza is chosen at random. **Given that** the pizza is veg, which group do you look at? Find its total.

	Cheese	Veg	Meat	Total
Large	21	13	16	
Small	9	15	6	
Total				

Look at _____ **Total** ☐

We do

A runner is chosen at random. **Given that** the runner is under 18, find the probability that the runner finished the race.

	Finished	Did not finish	Total
Under 18	24	8	32
18 and over	51	17	68
Total	75	25	100

Look at _____ **Total** ☐

Of these, Finished ☐ **Probability** ☐

You do

A car is chosen at random. **Given that** the car is electric, find the probability that the car is small.

	Electric	Petrol	Total
Small	18	22	40
Large	12	28	40
Total	30	50	80

Look at _____ **Total** ☐

Of these, Small ☐ **Probability** ☐

You do

A coat is chosen at random. **Given that** the coat is green, find the probability that the coat is medium.

	Black	Green	Total
Small	11	4	15
Medium	17	9	26
Large	12	7	19
Total	40	20	60

Look at _____ **Total** ☐

Of these, Medium ☐ **Probability** ☐