

Learning Objective:	Two way Tables	Name:	
		Date:	

Do NOW Activity:

- 1 **Work out** $£122.99 + £8.50 - £50.99$
- 2 **Evaluate** 2^5
- 3 **Solve** $20 - 9x = 11$
- 4 **Round** 0.0192 correct to 1 significant figure
- 5 **Work out** $-3 - -10$

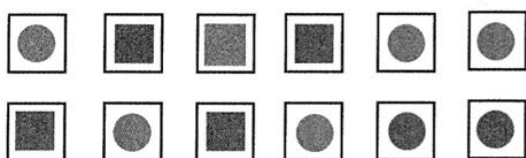
PRIOR KNOWLEDGE CHECK:

1. I can find multiples and factors

THE MAIN EVENT

WORKED EXAMPLE #1:

Below are 12 cards from a game.



(a) Complete this two-way table.

	Red	Green
Square	4	1
Circle	2	5

80 students visited the library over three days.

The two-way table shows some information about these students.

	Monday	Tuesday	Wednesday	Total
Female	7	18	13	38
Male	14	15	13	42
Total	21	33	26	80

(a) Complete the two-way table.

(b) Write down the probability that the student is a female.

$$\frac{38}{80}$$

PRACTICE #1:

Question 1: Complete the two way table to show the information about the shapes below.



	Rhombus	Star	Total
Red			
Yellow			
Total			

Question 2: 50 children were asked if they wanted to go bowling or to the cinema.

17 girls and 11 boys wanted to go bowling.

12 boys wanted to go to the cinema.

(a) Use this information to complete the two-way table below.

	Bowling	Cinema	Total
Boys			
Girls			
Total			

(b) How many children, in total, want to go to the cinema?

Question 3: Complete the following two way tables:

(a)

	Car	Bus	Walk	Total
Year 9	10	8		24
Year 10		7	5	
Total	16			42

(b)

	English	Art	Total
Pass	25		
Fail		12	13
Total		19	

(c)

	Rugby	Football	Hockey	Total
Class 9A	7		6	24
Class 9B		3		
Total	12			40

(d)

	Child	Adult	Total
Male	52		86
Female		43	
Total			178

Question 4: This two-way table shows information about the students in years 8, 9 and 10.

	Year 8	Year 9	Year 10
Boys	45	38	51
Girls	32	52	28

- Find the total number of students in year 8.
- Find the total number of girls in years 8, 9 and 10.
- What fraction of the students are in year 10?
- What fraction of year 9 students are girls?

Question 5: This two-way table shows the number of goals scored in each match by three football teams throughout January, February and March.

	Rovers	City	United
0 goals	8	3	5
1 goal	3	8	9
2 or more	7	9	4

- Find the number of matches that Rovers played.
- Find the number of matches where 1 goal was scored by these teams.
- In what percentage of their matches did City score no goals?
- Find the fraction of United's matches where they scored 2 or more goals.

APPLICATION

There are 120 students in Year 11 at a school.
 Each student studies one language, either French, Spanish, German or Welsh.
 21 of the 40 students studying Welsh are male.
 18 males and 9 females study French.
 12 of the 17 students studying Spanish are female.
 Twice as many females study German than males.

How many students in Year 11 are female?