## What is the highest total you could score

 with three darts?What is the lowest total you could score With three darts?
How many ways can you find to score 100?

How many different ways can you find to make a score with a ' 3 ' in the ones column?


Summer week 9 Lesson 5-26.06.20
LO: To solve problems involving 2-way tables

## Success Criteria:

1. Read the question carefully
2. Decide which section of the chart the question is about e.g. Baseball
3. Look at that section to check your answer
4. Decide whether it is true or false.

Model

## What is your favorite sport to watch on television?

|  | Football | Basketball | Baseball |
| :---: | :---: | :---: | :---: |
| Males | 40 | 22 | 15 |
| Females | 12 | 10 | 45 |
| Total | 52 | 38 | 6 |

## True or false

60 people said their favourite sport on TV was Baseball?
True - the total number of females plus males = $60-15+45=60$

There were 22 males who liked football?

False - there were 40

Can you pair the right information with the right two-way table?

| 1. Number of Boys and Girls in a maths class |  |  |  | 2. Number of Boys and Girls in a maths class |  |  |  | 3. Number of Boys and Girls in a maths class |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{\|l\|} \hline \text { Year } \\ 7 \end{array}$ | $\begin{aligned} & \text { Year } \\ & 8 \end{aligned}$ | $\begin{aligned} & \hline \text { Year } \\ & 9 \end{aligned}$ |  | Year $7$ | $\begin{aligned} & \text { Year } \\ & 8 \end{aligned}$ | $\begin{aligned} & \text { Year } \\ & 9 \end{aligned}$ |  | Year <br> 7 | Year 8 | Year $9$ |
| Boys | 14 | 15 | 18 | Boys | 11 | 18 | 7 | Boys | 11 | 0 | 14 |
| Girls | 16 | 13 | 10 | Girls | 22 | 14 | 20 | Girls | 15 | 15 | 9 |
| This teacher has a class with exactly twice as many girls than boys. |  |  |  | This teachers has 64 pupils in total in their Key Stage 3 classes. |  |  |  | One of the classes contained 32 pupils in total. |  |  |  |
| This teacher has a class that only contains girls. |  |  |  | There are 10 girls in this teachers Year 9 class. |  |  |  | In total, there are more boys than girls in these classes. |  |  |  |

## Summer week 9 Lesson 5-19.06.20

## Spicy/Red Hot - Complete these tables



## Now solve these problems

## How many mistakes?

Four teachers have completed some two-way tables. One of the teachers has made 4 errors, one has made no errors and two have made 1 error. Can you work out the number of errors made by each

## teacher?



Physics
More boys study English Language than girls who study Art

The number of boys who study Food is the same as the number of girls who study Biology

- More boys study Polish than boys study Food


The Art teacher said

- More girls study a D\&T subject than boys study an English subject
- 3 more girls study a maths subject than boys who study an English subject

There are 2 more students doing Applied maths than girls studying Art

The most popular subject is German

The music teacher said:

More girls take a D\&T subject than a Science subject


The number of students studying French is 2 more than the number studying Food

More boys study English literature than "More maths"

The number of boys studying
"More maths" and girls studying Textiles is the same

保 said

The most popular individual subject is English
 Literature

The total for food and textiles is more than twice the total for Art

More boys study Applied maths than all the students studying D\&T subjects

43 more students study English Language than German.

