1) a) $72-45=27$
b) $81-32=49$
c) Car: $103+87=190$

Bike: $25+32=57$
$190-57=133$
133 more children travelled by car compared to bike in December and April.
d) Accept any of the following calculations: $72+25+103=200 ; 81+32+87=200 ; 109+46+45=200$. 200 children were surveyed.
e) More children travelled by car in December. Accept any logical explanation about why this could be the case. For example, in December, the weather is typically colder so fewer children chose to walk or cycle compared to the other months.
1)

|  | Science <br> Club | Book Club | Nature <br> Club | Gym Club | Total Number <br> of Girls/Boys |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Girls | 17 | 15 | 14 | 19 | 65 |  |  |  |
| Boys | 12 | 21 | 15 | 14 | 62 |  |  |  |
| Total Number of <br> Pupils in Each Club | 29 | 36 | 29 | 33 |  |  |  |  |

a) False. The two most popular clubs for girls are science Club and Gym club.
b) True. 127 children belong to a club.
c) False. Science Club is more popular with girls than boys but Book Club is more popular with boys than girls.
d) False. Book Club and Nature Club have 65 children while Science Club and Gym Club have 62.

1) a)

|  | Year 4 | Year 5 | Year 6 |
| :--- | :---: | :---: | :---: |
| Fish and Chips | 50 | 35 | 15 |
| Pasta Bake | 35 | 40 | 25 |
| Chicken Curry | 38 | 48 | 24 |

1) This table shows the results from a survey which was done three times in a year to find out how many children either walked, cycled or travelled by car to get to school. The same children were asked each month.

|  | December | April | July |
| :--- | :---: | :---: | :---: |
| Walk | 72 | 81 | 109 |
| Cycle | 25 | 32 | 46 |
| Car | 103 | 87 | 45 |


a) How many more children walked to school in December than travelled by car in July?
$\qquad$
b) How many more children walked to school than cycled in April?
$\qquad$
c) In December and April, how many more
children travelled by car than bike?
$\qquad$
$\qquad$
$\qquad$
d) How many children were asked about how they travelled to school?
$\qquad$
$\qquad$
e) Did more children travel to school by car in certain months than others? Why do you think this is?
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

1) This table shows the number of boys and girls who belong to different school clubs.

Children are only allowed to belong to one club. Complete this table with the missing values:

|  |
| :--- |
| Science Club |
| Book Club |
| Girls |
| Noys |

a) Science Club and Nature Club are the two most popular clubs for girls.
b) The total number of children who belong to a club is more than 120.
c) Book Club and Science Club are more popular with girls than with boys.
d) In total, more children chose Science Club and Gym Club than Book Club and Nature Club.

1) The school kitchen keeps a record of how many children in years 4,5 and 6 have a hot dinner each day.
a) Complete the table using the clues they have given to help.

## Monday - Fish and Chips

Year 4 ate half of the fish and chip meals served today. Year 6 ate 20 less fish and chip meals than year 5. Year 5 ate 15 less fish and chip meals than year 4. We served 100 meals.

## Tuesday - Pasta Bake

Year 4 and year 6 ate 60 pasta bake meals between the two classes. Year 4 ate 35 meals. Year 4 ate 10 more pasta bake meals than year 6. Year 5 ate the rest. We served the same number of meals today as Monday.

## Wednesday - Chicken Curry

We served 10 more meals than yesterday and year 4 had 38 of them. Year 5 had double the number of meals that year 6 had.

|  | Year 4 | Year 5 | Year 6 |
| :--- | :--- | :--- | :--- |
| Fish and Chips |  |  |  |
| Pasta Bake |  |  |  |
| Chicken Curry |  |  |  |


b) We served between 110 and 150 meals each day.

Use this statement to decide how many meals were served each day for each year group - make sure you keep these numbers secret for now! Generate your own clues and ask a friend to use these to complete the table.

|  | Year 4 | Year 5 | Year 6 |
| :--- | :--- | :--- | :--- |
| Pizza |  |  |  |
| Jacket Potato |  |  |  |
| Pasta Salad |  |  |  |



## Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:


These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.


## Aim

- Complete, read and interpret information in tables, including timetables.


## al



A holiday company recorded how many tourists visited Italy, Spain or France in three different months of the year.

|  | January | April | August |
| :--- | :---: | :---: | :---: |
| Italy | 270 | 485 | 1245 |
| Spain | 350 | 865 | 1650 |
| France | 450 | 745 | 1989 |

## Which month was the most popular for tourists?

 Why do you think this is?
 or Januals कectiaso it is 1when the school holidays are and is when the weather is at its warmest.

This table shows the number of visitors to each ride at a theme park from 2016 to 2018.

|  | 2016 | 2017 | 2018 |
| :--- | :---: | :---: | :---: |
| Screamer | 8965 | 7564 | 6432 |
| Waltzer | 9524 | 11546 | 7654 |
| Big Wheel | 10245 | 12568 | 8965 |

Decide if each statement is true or false and explain your reasons.

 Waltzer dint mituritiranal in 2018.


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## Two-Way Tables <br> Deepest

100 children from each year group were asked to pick their favourite sport from a choice of football, athletics and gymnastics. Use the clues to help fill in the

|  | Year 4 | Year 5 | Year 6 |
| :--- | :---: | :---: | :---: |
| Football | 10 | 30 | 60 |
| Athletics | 50 | 35 | 15 |
| Gymnastics | 40 | 35 | 25 | missing parts of the table.

## Compared to year

 5, twice as many year 6 children prefer football.The difference between those who chose athletics as their favourite sport in years 5 and 6 was twenty.

Half of the year 4 children asked chose athletics as their favourite sport.

> Compared to year 5, ten fewer children in year 6 chose gymnastics as their favourite sport.

Two-Way Tables

Dive in by completing your own activity!



1) This table shows the results from a survey which was done three times in a year to find out how many children either walked, cycled or travelled by car to get to school. The same children were asked each month.

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1) This table shows the number of boys and girls who belong to different school clubs.
Children are only allowed to belong to one club.

Complete this table with the missing values:

|  | Science <br> Club | Book <br> Club | Nature <br> Club | Gym <br> Club | Total Number <br> of Girls/Boys |
| :---: | :---: | :---: | :---: | :---: | :---: |
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| Boys | 12 | 21 | 29 | 33 |  |
| Total <br> Number <br> of Pupils <br> in Each <br> Club | 29 |  |  |  |  |

Use the table to decide if each of the statements are true or false. Explain your reasoning.
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b) The total number of children who belong to a club is more than 120.
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We served 10 more meals than yesterday and year 4 had 38 of them. Year 5 had double the number of meals that year 6 had.
a) Complete the table using the clues they have given to help.

|  | Year 4 | Year 5 | Year 6 |
| :--- | :--- | :--- | :--- |
| Fish and Chips |  |  |  |
| Pasta Bake |  |  |  |
| Chicken Curry |  |  |  |

b) We served between 110 and 150 meals each day.

Use this statement to decide how many meals were served each day for each year group - make sure you keep these numbers secret for now! Generate your own clues and ask a friend to use these to complete the table.

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| :--- | :--- | :--- | :--- |
| Pizza |  |  |  |
| Jacket Potato |  |  |  |
| Pasta Salad |  |  |  |

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