**Home Learning 2**

**Q1.** **(Year 4 standard)**

This pictogram shows the number of satellites above the Earth in 2016.

How many satellites were above the Earth in 2016?

1 mark

**Q2. (Year 4 standard)**

William asks the children in Year 2 and Year 6 if they walk to school.

This graph shows the results.

Altogether, how many children **don’t** walk to school?

1 mark

How many **more** Year 6 children than Year 2 children walk to school?

1 mark

**Q3. (Year 4 standard)**

A school plans to collect £200 between January and May.

This chart shows how much they collected by the end of April.

**Amount of money collected in £**

Write the name of **each** month where they collected more than £50

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1 mark

How much money did they collect in February and March **altogether**?

1 mark

**Q4. (Year 4 standard)**

Amy went on a cycling holiday.

This chart shows how far she cycled each day.



How much **further** did Amy cycle on Friday than on Wednesday?

1 mark

How far did Amy cycle **altogether** on the three days she cycled the most?

1 mark

**Q5. (Year 4 standard)**

Class 6 did a survey of mushrooms growing in a field.

The diagram shows the distances of mushrooms from the centre of the field.

How many mushrooms were more than 10 metres from the centre?

1 mark

What **fraction** of the mushrooms were less than 10 metres from the centre?

1 mark

**Q6.** **(Year 5 standard)**

This graph shows the temperature in °C from 2 am to 3 pm on a cold day.

How many degrees **warmer** was it at 3 pm than at 3 am?

1 mark

At 6 pm the temperature was 4 degrees lower than at 3 pm.

What was the temperature at 6 pm?

1 mark

**Q7. (Year 5 standard)**

This table shows the heights of three mountains.

|  |  |
| --- | --- |
| **Mountain** | **Height in metres** |
| Mount Everest | 8,848 |
| Mount Kilimanjaro | 5,895 |
| Ben Nevis | 1,344 |

How much higher is Mount Everest than the combined height of the other two mountains?

2 marks

**Q8. (Year 5 standard)**

William wants to travel to Paris by train.

He needs to arrive in Paris by **5:30 pm**.

Circle the **latest time** that William can leave London.

|  |  |
| --- | --- |
| **Leaves London** | **Arrives Paris** |
| 12:01 | 15:22 |
| 12:25 | 15:56 |
| 13:31 | 16:53 |
| 14:01 | 17:26 |
| 14:31 | 17:53 |
| 15:31 | 18:53 |
| 16:01 | 19:20 |

1 mark

**Q9. (Year 5 standard)**

This table shows the number of people living in various towns in England.

|  |  |
| --- | --- |
| **Town** | **Population** |
| Bedford | 82,448 |
| Carlton | 48,493 |
| Dover | 34,087 |
| Formby | 24,478 |
| Telford | 166,640 |

What is the **total** of the numbers of people living in Formby and in Telford?

1 mark

What is the **difference** between the numbers of people living in Bedford and in Dover?

1 mark

**Q10. (Year 5 standard)**

Here is the morning timetable for Chen’s class this week.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Time** | **Mon** | **Tue** | **Wed** | **Thu** | **Fri** |
| **9:00 am – 10:30 am** | Maths | English | Maths | English | Maths |
| **10:30 am – 11:00 am** | Break | Break | Break | Break | Break |
| **11:00 am – 12:00 pm** | English | Maths | Science | Maths | English |

What is the **total** number of hours for **English** on this timetable?

1 mark

**Q11. (Year 6 standard)**

Here are the temperatures in four cities at midnight and at midday.

|  |  |
| --- | --- |
|   | **Temperature** |
| **City** | **At midnight** | **At midday** |
| Paris |  −4°C | −2°C |
| Oslo | −13°C | −7°C |
| Rome |    3°C | 10°C |
| Warsaw |  −6°C |   2°C |

At **midnight**, how many degrees colder was Paris than Rome?

1 mark

Which city was 6 degrees colder at midnight than at midday?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1 mark

**Q12.** **(Year 6 standard)**

This chart shows the number of different types of big cat in a zoo.

There are **20** big cats in the zoo altogether.

Here are some statements about the chart.

Tick the statements that are **true**.

|  |  |
| --- | --- |
| There are more cheetahs than jaguars. |   |
| The total number of lions and tigers is 10 |   |
| One-quarter of the big cats are cheetahs. |   |
| There are more than 5 jaguars. |   |

2 marks

**Q13. (Year 6 standard)**

Seven children measured their heights.

|  |  |
| --- | --- |
| **Children** | **Height (cm)** |
| Stefan | 144 |
| Lara | 136 |
| Olivia | 142 |
| Chen | 143 |
| Maria | 152 |
| Dev | 148 |
| Sarah | 150 |

What is the mean height of the children?

2 marks

**Q14. (Year 6 standard)**

This weather chart shows the highest and lowest temperatures in a town on five days in March.

|  |  |
| --- | --- |
|   | Temperature °C |
|   | highest | lowest |
| Monday | +7 | 0 |
| Tuesday | +7 | –2 |
| Wednesday | +8 | –2 |
| Thursday | +9 | +1 |
| Friday | +4 | –5 |

Which day has the greatest difference between the highest and the lowest temperatures?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1 mark

What is the difference between the lowest temperatures on Thursday and Friday?

1 mark

**Q15. (Year 6 standard)**

Write each number in its correct place on the diagram.

16         17         18         19

2 marks

Mark schemes

**Q1.**

2,250

***Do not*** *accept* ***OR******OR*** *2.25*

**[1]**

**Q2.**

(a)     200

**1**

(b)     50

**1**

**[2]**

**Q3.**

(a)     February and April in either order.

*Accept alternative unambiguous indications, e.g. F and A.*

***Do not*** *accept the amounts collected in February and
April, i.e. £55 and £65*

**1**

(b)     £80

**1**

**[2]**

**Q4.**

(a)     5

**1**

(b)     45

**1**

**[2]**

**Q5.**

(a)     14

**1**

(b)

*Accept equivalent fractions eg*

*Ignore subsequent work if  is simplified incorrectly.*

*Accept follow through in part (b) of*

**1**

**[2]**

**Q6.**

(a)     7

**1**

***Do not*** *accept −7 or 7−*

(b)     −2

**1**

***Do not*** *accept 2−*

**[2]**

**Q7.**

Award **TWO** marks for the correct answer of 1,609

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g.

•    5,895 + 1,344 = 7,239

     8,848 − 7,239

*Answer need not be obtained for the award of* ***ONE*** *mark.*

**Up to 2m**

**[2]**

**Q8.**

The correct time circled as shown:

*Accept alternative unambiguous positive indications, e.g. 14:01 ticked or underlined.*

*Accept 17:26 circled in addition to 14:01, provided no other time is circled.*

***Do not*** *accept only the arrival time 17:26 circled.*

**[1]**

**Q9.**

(a)     191,118

**1**

(b)     48,361

**1**

**[2]**

**Q10.**

5

***Do not*** *accept 300 (minutes).*

**[1]**

**Q11.**

(a)     7

***Do not*** *accept −7 or 7−*

**1**

(b)     Oslo

*Accept unambiguous abbreviations or recognisable misspellings.*

**1**

**[2]**

**Q12.**

Award **TWO** marks for only two correct boxes ticked, as shown:

|  |  |
| --- | --- |
| There are more cheetahs than jaguars. |  |
| The total number of lions and tigers is 10 |  |
| One-quarter of the big cats are cheetahs. |  |
| There are more than 5 jaguars. |  |

Award **ONE** mark for:

•   only one correct box ticked and no incorrect boxes ticked

**OR**

•   two correct boxes ticked and one incorrect box ticked.

*Accept alternative unambiguous positive indications, e.g. Y.*

**Up to 2 marks**

**[2]**

**Q13.**

Award **TWO** marks for the correct answer of 145

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, e.g:

•        144
136
142
143
152
148

       + 150

   1015

1015 ÷ 7

*Answer need not be obtained for the award of* ***ONE*** *mark.*

**Up to 2**

**[2]**

**Q14.**

Wednesday

*Accept unambiguous abbreviations or recognisable misspellings.*

**1**

6

***Do not*** *accept −6*

**1**

**[2]**

**Q15.**

Award **TWO** marks for all four numbers placed correctly as shown:

If the answer is incorrect, award **ONE** mark for three numbers placed correctly.

*Accept alternative unambiguous indications, e.g. lines drawn from the numbers to the appropriate regions of the diagram.*

***Do not*** *accept numbers written in more than one region, e.g.*

***OR***

**Up to 2m**

**[2]**