**Pictograms**

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| Name : | Class : | Date : |

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| **1)** The pictogram below shows favourite flavours of crisps in a survey of school children.

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|  |
|   | Key: http://www.mathster.com/assessment/qimages/walkers25.png= 4 children |
|  |

|  |  |
| --- | --- |
| Salt and Vinegar | http://www.mathster.com/assessment/qimages/walkers30.png |
| Worcester Sauce | http://www.mathster.com/assessment/qimages/walkers30.pnghttp://www.mathster.com/assessment/qimages/walkers30.png |
| Smoky Bacon | http://www.mathster.com/assessment/qimages/walkers30.pnghttp://www.mathster.com/assessment/qimages/walkers30.pnghttp://www.mathster.com/assessment/qimages/walkers30.pnghttp://www.mathster.com/assessment/qimages/walkers30.pnghttp://www.mathster.com/assessment/qimages/walkers30.pnghttp://www.mathster.com/assessment/qimages/walkers30.pnghttp://www.mathster.com/assessment/qimages/walkers30.png |
| Plain | http://www.mathster.com/assessment/qimages/walkers30.pnghttp://www.mathster.com/assessment/qimages/walkers30.pnghttp://www.mathster.com/assessment/qimages/walkers30.png |
| Cheese and Onion | http://www.mathster.com/assessment/qimages/walkers30.pnghttp://www.mathster.com/assessment/qimages/walkers30.pnghttp://www.mathster.com/assessment/qimages/walkers30.pnghttp://www.mathster.com/assessment/qimages/walkers30.pnghttp://www.mathster.com/assessment/qimages/walkers30.pnghttp://www.mathster.com/assessment/qimages/walkers30.pnghttp://www.mathster.com/assessment/qimages/walkers30.pnghttp://www.mathster.com/assessment/qimages/walkers30.png |

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|  |  |  |
| --- | --- | --- |
| a) | How many children prefer Cheese and Onion? |  |
|  |
| b) | Which flavour was preferred by 4 children? |  |
|  |
| c) | Which is the most popular flavour of crisps? |  |
|  |
| d) | How many children were surveyed? |  |

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      | [1]   |
| **2)** The pictogram below shows favourite flavours of crisps in a survey of school childrenKey: http://www.mathster.com/assessment/qimages/walkers25.png= 4 children

|  |  |
| --- | --- |
| Cheese and Onion | http://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.png |
| Worcester Sauce | http://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.png |
| Barbecue | http://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.png |
| Smoky Bacon | http://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45half.PNG |
| Spicy Tomato | http://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.png |

|  |  |
| --- | --- |
|   a) How many children prefer Worcester Sauce? |  |
|   b) Which flavour was preferred by 12 children? |  |
|   c) Which is the most popular flavour of crisps? |  |
|   d) How many children were surveyed? |  |

      | [1]   |
| **3)** The pictogram below shows favourite flavours of crisps in a survey of school childrenKey: http://www.mathster.com/assessment/qimages/walkers25.png= 8 children

|  |  |
| --- | --- |
| Plain | http://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60half.PNG |
| Beef | http://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60quarter.PNG |
| Smoky Bacon | http://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60quarter.PNG |
| Spicy Tomato | http://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60half.PNG |
| Worcester Sauce | http://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60.png |

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| --- | --- |
|   a) How many children prefer Beef? |  |
|   b) Which flavour was preferred by 56 children? |  |
|   c) Which is the most popular flavour of crisps? |  |
|   d) How many children were surveyed? |  |

      | [1]   |
| **4)** The pictogram below shows favourite football teams in a survey of school childrenKey: http://www.mathster.com/assessment/qimages/footy30.jpg= 10 children

|  |  |
| --- | --- |
| Newcastle | http://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpg |
| Everton | http://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpg |
| Liverpool | http://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpg |
| Tottenham | http://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpg |
| Man U | http://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpg |

|  |  |
| --- | --- |
|   a) How many children prefer Liverpool? |  |
|   b) Which team was preferred by 30 children? |  |
|   c) Which is the most popular team? |  |
|   d) How many children were surveyed? |  |

      | [1]   |
| **5)** The pictogram below shows favourite football teams in a survey of school childrenKey: http://www.mathster.com/assessment/qimages/footy30.jpg= 8 children

|  |  |
| --- | --- |
| Man U | http://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpg |
| Tottenham | http://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpg |
| Liverpool | http://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpg |
| Newcastle | http://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45half.JPG |
| Man City | http://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpg |

|  |  |
| --- | --- |
|   a) How many children prefer Tottenham? |  |
|   b) Which team was preferred by 16 children? |  |
|   c) Which is the most popular team? |  |
|   d) How many children were surveyed? |  |

      | [1]   |
| **6)** The pictogram below shows favourite football teams in a survey of school childrenKey: http://www.mathster.com/assessment/qimages/footy30.jpg= 4 children

|  |  |
| --- | --- |
| Chelsea | http://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45quarter.JPG |
| Everton | http://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45threequarters.JPG |
| Blackburn | http://www.mathster.com/assessment/qimages/footy45.jpg |
| Southampton | http://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45quarter.JPG |
| Man U | http://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45half.JPG |

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| --- | --- |
|   a) How many children prefer Blackburn? |  |
|   b) Which team was preferred by 23 children? |  |
|   c) Which is the most popular team? |  |
|   d) How many children were surveyed? |  |

      | [1]   |
| **7)** Complete the table and pictogram below to show goals scored by 3 football teams.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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|  |  |
| --- | --- |
|  Man City |  http://www.mathster.com/assessment/qimages/footy30_0.jpghttp://www.mathster.com/assessment/qimages/footy30_0.jpghttp://www.mathster.com/assessment/qimages/footy30_0.jpghttp://www.mathster.com/assessment/qimages/footy30_0.jpghttp://www.mathster.com/assessment/qimages/footy30_0.jpg |
|  Newcastle |   |
|  Liverpool |  http://www.mathster.com/assessment/qimages/footy30_0.jpghttp://www.mathster.com/assessment/qimages/footy30_0.jpghttp://www.mathster.com/assessment/qimages/footy30_0.jpghttp://www.mathster.com/assessment/qimages/footy30_0.jpghttp://www.mathster.com/assessment/qimages/footy30_0.jpghttp://www.mathster.com/assessment/qimages/footy30_0.jpg |
|   Key: http://www.mathster.com/assessment/qimages/footy30.jpg= 2 goals |

 |   |

|  |  |
| --- | --- |
| Team | Goals |
| Man City | 10 |
| Newcastle | 6 |
| Liverpool |  |

 |

 | [1]   |
| **8)** Complete the table and pictogram below to show goals scored by 3 football teams.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
|  Blackburn |  http://www.mathster.com/assessment/qimages/footy30_0.jpghttp://www.mathster.com/assessment/qimages/footy30_0.jpghttp://www.mathster.com/assessment/qimages/footy30half_1.jpg |
|  Newcastle |   |
|  Man City |  http://www.mathster.com/assessment/qimages/footy30_0.jpghttp://www.mathster.com/assessment/qimages/footy30_0.jpghttp://www.mathster.com/assessment/qimages/footy30_0.jpghttp://www.mathster.com/assessment/qimages/footy30_0.jpghttp://www.mathster.com/assessment/qimages/footy30half_1.jpg |
|   Key: http://www.mathster.com/assessment/qimages/footy30.jpg= 2 goals |

 |   |

|  |  |
| --- | --- |
| Team | Goals |
| Blackburn | 5 |
| Newcastle | 7 |
| Man City |  |

 |

 | [1]   |

**Solutions for the assessment Pictograms**

|  |  |
| --- | --- |
| **1)** a) 32, b) Salt and Vinegar, c) Cheese and Onion, d) 84 | **2)** a) 24, b) Barbecue, c) Spicy Tomato, d) 106 |
| **3)** a) 34, b) Worcester Sauce, c) Plain, d) 244 | **4)** a) 80, b) Newcastle, c) Liverpool, d) 220 |
| **5)** a) 24, b) Liverpool, c) Man City, d) 172 | **6)** a) 4, b) Everton, c) Southampton, d) 75 |
| **7)** http://www.mathster.com/assessment/qimages/footy30_0.jpghttp://www.mathster.com/assessment/qimages/footy30_0.jpghttp://www.mathster.com/assessment/qimages/footy30_0.jpg, 12 | **8)** ()()()(, 9 |