**Pictograms**

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| **1)** The pictogram below shows favourite flavours of crisps in a survey of school children.   |  | | --- | |  | |  | 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 | | |  |  | | |  |  |  | | --- | --- | --- | | 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? |  | | | | [1] |
| **2)** The pictogram below shows favourite flavours of crisps in a survey of school children  Key: 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 children  Key: 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 |  |  |  | | --- | --- | | 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 children  Key: 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 children  Key: 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 children  Key: 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 |  |  |  | | --- | --- | | 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.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | 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**

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| **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 |