**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= 2 children | |  | |  |  | | --- | --- | | Salt and Vinegar | http://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.png | | Plain | 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.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.pnghttp://www.mathster.com/assessment/qimages/walkers30.png | | Barbecue | 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 | | |  |  | | |  |  |  | | --- | --- | --- | | a) | How many children prefer Salt and Vinegar? |  | |  | | | | b) | Which flavour was preferred by 12 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   |  |  | | --- | --- | | Barbecue | 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 | | Spicy Tomato | http://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45half.PNG | | Cheese and Onion | http://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/walkers45.pnghttp://www.mathster.com/assessment/qimages/walkers45.png | | Beef | http://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 Beef? |  | | b) Which flavour was preferred by 24 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= 4 children   |  |  | | --- | --- | | 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/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60half.PNG | | Worcester Sauce | http://www.mathster.com/assessment/qimages/walkers60.pnghttp://www.mathster.com/assessment/qimages/walkers60half.PNG | | 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/walkers60threequarters.PNG | | Cheese and Onion | 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.png | | Barbecue | 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 |  |  |  | | --- | --- | | a) How many children prefer Worcester Sauce? |  | | b) Which flavour was preferred by 16 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   |  |  | | --- | --- | | 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.jpghttp://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.jpg | | Liverpool | http://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.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/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpg |  |  |  | | --- | --- | | a) How many children prefer Southampton? |  | | b) Which team was preferred by 50 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= 2 children   |  |  | | --- | --- | | Tottenham | 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 | | 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.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/footy45half.JPG | | Chelsea | 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 | | 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/footy45half.JPG |  |  |  | | --- | --- | | a) How many children prefer Man U? |  | | b) Which team was preferred by 10 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= 12 children   |  |  | | --- | --- | | 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/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.jpg | | Southampton | http://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpghttp://www.mathster.com/assessment/qimages/footy45.jpg | | Blackburn | 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/footy45quarter.JPG | | Chelsea | 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/footy45half.JPG |  |  |  | | --- | --- | | a) How many children prefer Chelsea? |  | | b) Which team was preferred by 87 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.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | Chelsea | 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 | | Tottenham |  | | Liverpool | http://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 | | Chelsea | 10 | | Tottenham | 12 | | Liverpool |  | | | [1] |
| **8)** Complete the table and pictogram below to show goals scored by 3 football teams.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  | | --- | --- | | Everton | 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 | | Southampton |  | | 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.jpghttp://www.mathster.com/assessment/qimages/footy30half_1.jpg | | Key: http://www.mathster.com/assessment/qimages/footy30.jpg= 2 goals | | |  | |  |  | | --- | --- | | Team | Goals | | Everton | 5 | | Southampton | 9 | | Man City |  | | | [1] |

**Solutions for the assessment Pictograms**

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| --- | --- |
| **1)** a) 2, b) Plain, c) Smoky Bacon, d) 52 | **2)** a) 12, b) Smoky Bacon, c) Barbecue, d) 86 |
| **3)** a) 6, b) Cheese and Onion, c) Smoky Bacon, d) 89 | **4)** a) 30, b) Newcastle, c) Man City, d) 220 |
| **5)** a) 7, b) Chelsea, c) Man City, d) 58 | **6)** a) 90, b) Blackburn, c) Chelsea, d) 327 |
| **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.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, 4 | **8)** ()()()()(, 11 |