Reasoning and Problem Solving Step 3: Interpret Pictograms (1-1)

National Curriculum Objectives:

Mathematics Year 2: (2S1) <u>Interpret and construct simple pictograms, tally charts, block</u> <u>diagrams and simple tables</u>

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Use a clue to work out a missing category on a pictogram. Pictogram uses one to one representation and includes up to 10 pictures or symbols in each category. Expected Use clues to work out a missing category on a pictogram. Pictogram uses one to one representation and includes up to 15 pictures or symbols in each category.

Greater Depth Use clues to work out missing categories on a pictogram. Pictogram uses one to one representation and includes up to 15 pictures or symbols in each category.

Questions 2, 5 and 8 (Reasoning)

Developing Interpret a pictogram using one to one representation to explain if a statement is true or false. Includes up to 10 pictures or symbols in each category.

Expected Interpret a pictogram using one to one representation to explain if statements are true or false. Includes up to 15 pictures or symbols in each category.

Greater Depth Interpret a pictogram using one to one representation to explain if statements are true or false. Includes up to 15 pictures or symbols in each category.

Questions 3, 6 and 9 (Reasoning)

Developing Interpret a pictogram using one to one representation to explain if a statement is correct. Includes up to 10 pictures or symbols in each category. Expected Interpret a pictogram using one to one representation to explain which statement is correct. Includes up to 15 pictures or symbols in each category. Greater Depth Interpret a pictogram using one to one representation to explain if statements are correct. Includes up to 15 pictures or symbols in each category.

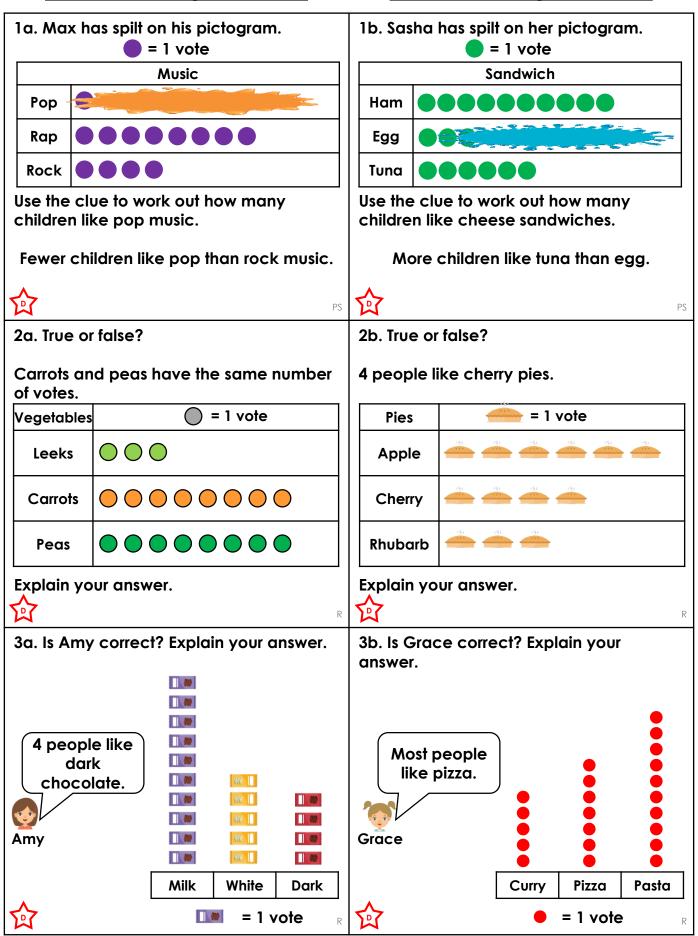
More Year 2 Statistics resources.

Did you like this resource? Don't forget to review it on our website.



Interpret Pictograms (1-1)

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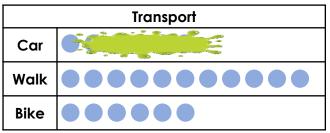
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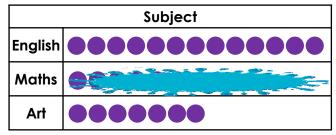




Use the clues to work out how many travel by car.

More people walk than travel by car. Fewer people ride a bike than travel by car.

4b. Kara has spilt on her pictogram.



Use the clues to work out how many chose Maths.

English was the most popular subject. At least 3 more chose Maths than Art.

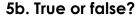


5a. True or false?

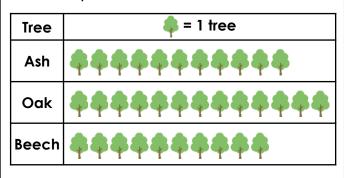
- A. 10 children have a fish or a rabbit.
- B. 24 children were asked in total.

Pets	= 1 vote
Rabbit	00000
Dog	•••••••
Fish	0000

Explain your answers.



- A. Oak trees are the least popular.
- B. In total, there are 25 ash and oak trees.



Explain your answers.

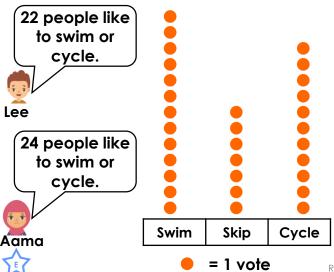


6a. Who is correct? Explain your answer.



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6b. Who is correct? Explain your answer.





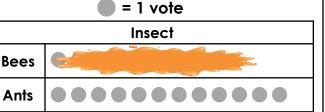
Sam

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Interpret Pictograms (1-1)

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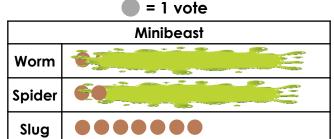


Use the clues to work out how many bees and flies there could be.

There are fewer flies than bees.

There are more than twice as many ants
as bees.

7b. Ted has spilt on his pictogram.



Use the clues to work out how many worms and spiders there could be.

There are 30 minibeasts in total.

Spiders are most common and slugs are least common.

8a. True or false?

Flies

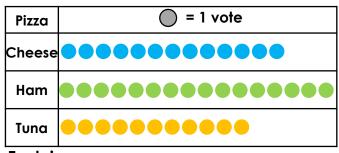
- A. More chose cheese than plain and beef added together.
- B. 24 children were asked in total.

Crisps	= 1 vote
Plain	•••••
Cheese	••••••
Beef	•••••

Explain your answers.

8b. True or false?

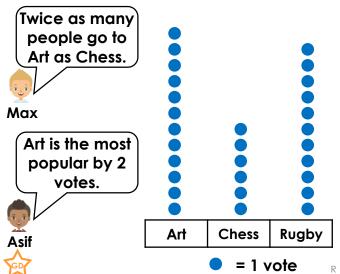
- A. More than half the children asked chose cheese as their favourite.
- B. In total, 27 chose ham or tuna.



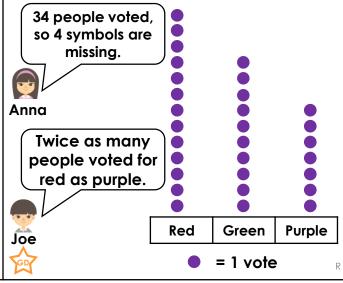
Explain your answers



9a. Who is correct? Explain your answer.



9b. Who is correct? Explain your answer.





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Reasoning and Problem Solving Interpret Pictograms (1-1)

Developing

1a. 1, 2 or 3

2a. True. 8 liked carrots and 8 like peas.

3a. Amy is correct. There are 4 pictures/symbols above the word 'dark' to show 4 people liked dark chocolate.

Expected

4a. 7, 8, 9 or 10

5a. A. True. 6 people have a rabbit and 4 people have a fish. 6 + 4 = 10.

B. False. There are 23 symbols altogether.

6a. Dan is correct. 12 people like toffee and 4 people like fudge. 12 – 4 = 8.

Greater Depth

7a. 2, 3, 4 or 5 bees; 1, 2, 3, or 4 flies 8a. A. True. 7 people chose plain and 6 people chose beef. 7 + 6 = 13. 14 chose cheese.

B. False. 7 chose plain, 6 chose beef, 14 chose cheese. 7 + 6 + 14 = 27.

9a. Max is correct. Art had 12 votes, Chess had 6 votes, 12 is double 6.

Reasoning and Problem Solving Interpret Pictograms (1-1)

<u>Developing</u>

1b. 3, 4 or 5

2b. True. There are 4 pictures/symbols next to the word 'cherry' to show 4 people liked cherry pies.

3b. Grace is not correct. 7 people chose pizza but 10 people chose pasta.

Expected

4b. 10, 11 or 12

5b. A. False. There are 11 ash trees, 13 oak trees and 10 beech trees. The least popular is beech.

B. False. 11 + 13 = 24.

6b. Aama is correct. 13 like to swim and 11 like to cycle. 13 + 11 = 24.

Greater Depth

7b. 8, 9, 10 or 11 worms; 12, 13, 14 or 15 spiders

8b. A. False. 40 children were asked (13 + 16 + 11 = 40) Half of 40 is 20 but only 13 chose pepperoni.

B. True. 16 chose ham and 11 chose tuna. 16 + 11 = 27.

9b. Anna is correct. There are 13 symbols for red, 10 symbols for green and 7 symbols for purple. 13 + 10 + 7 = 30. If 34 people vote that means 4 symbols are missing.

