



GRADE 3 / WATCH MR DJ SOLVE

SCALED PICTURE AND BAR GRAPHS

Start with the same example used in the lesson slides.

**WATCH MR DJ SOLVE**

Data: A=6, B=10, C=8, D=4. Each picture stands for 2 votes. How many pictures show B?

- 1** B has 10 votes.
- 2** $10 \div 2 = 5$.
- 3** Use 5 whole pictures.

Answer: **5****REMEMBER** draw scaled picture and bar graphs and solve comparisons from their keys.

Read each step and explain why it is valid. The next pages demonstrate the methods in more detail. Then use the large work areas on the numbered practice pages.



GRADE 3 / WORKED METHODS

SCALED PICTURE AND BAR GRAPHS

Read a complete example before trying the matching method.



Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

A picture-graph key

5 pictures at 2 votes each = 10 votes

1. Read one picture as 2 votes.
2. Count 5 pictures.
3. $5 \times 2 = 10$ votes.

One circle = 2 votes

A		6 votes
B		10 votes
C		8 votes
D		4 votes



GRADE 3 / WORKED METHODS

SCALED PICTURE AND BAR GRAPHS

Read a complete example before trying the matching method.



Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

A two-step graph question

$B+C-A=10+8-6=12$ votes

1. Combine B and C: 18 votes.
2. Compare their total with A: 6 votes.
3. $18-6=12$ more votes.

Votes / one grid step = 2 votes



Read a numeric scale or a picture key first



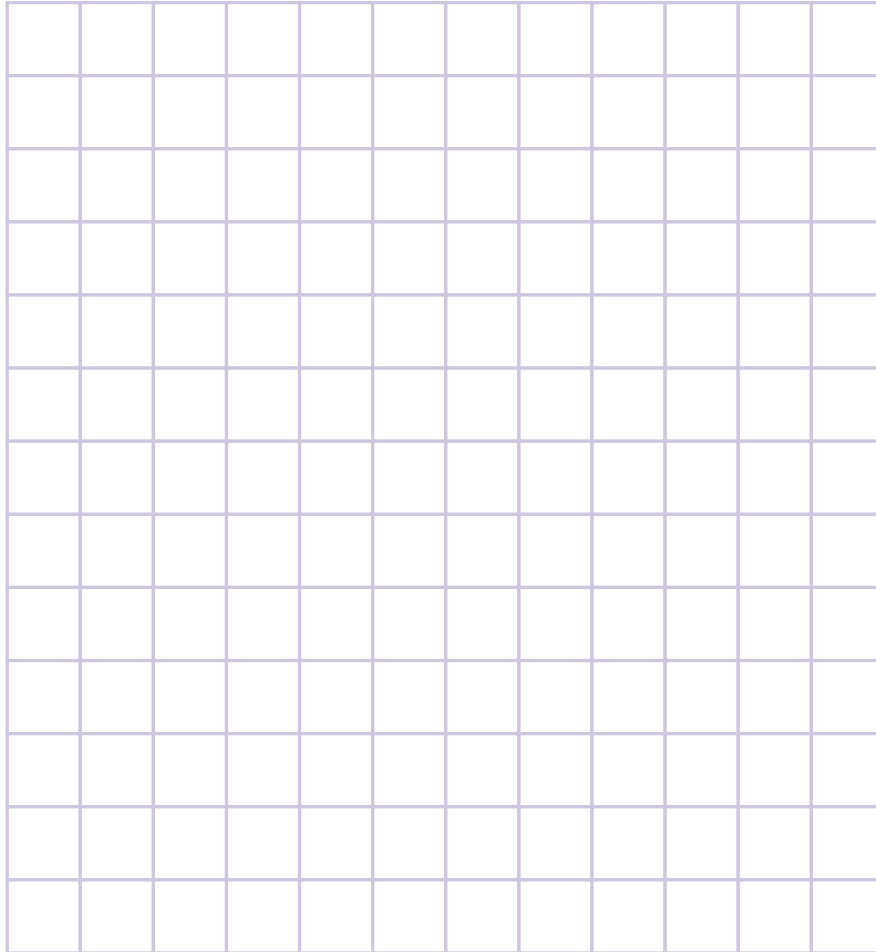
GRADE 3 / MATHEMATICAL WORK TOOL

SCALED PICTURE AND BAR GRAPHS

Use labels and a clear scale.



Label a zero-based numeric scale, categories and units. Choose one equal step size. A picture graph also needs a key.





GRADE 3 / PRACTICE

SCALED PICTURE AND BAR GRAPHS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

☛ Mild

1. Data: A=6, B=10, C=8, D=4. How many more votes has B than A?

Grid area for working out the answer to Question 1.

My answer / conclusion: _____

☛ Mild

2. Data: A=6, B=10, C=8, D=4. Find A and D together.

Grid area for working out the answer to Question 2.

My answer / conclusion: _____



GRADE 3 / PRACTICE

SCALED PICTURE AND BAR GRAPHS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔒 Medium

3. Draw a scaled bar graph for A=6, B=10, C=8, D=4. Use a scale of 2 votes per grid step.

My answer / conclusion: _____



GRADE 3 / PRACTICE

SCALED PICTURE AND BAR GRAPHS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

Medium

4. Draw a picture graph for A=6, B=10, C=8, D=4. Include a key showing one picture = 2 votes.

My answer / conclusion: _____



GRADE 3 / PRACTICE

SCALED PICTURE AND BAR GRAPHS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔊 Medium

5. Data: A=6, B=10, C=8, D=4. How many more votes do B and C together have than A?

Grid area for working out the solution.

My answer / conclusion: _____



Date _____

SCALED PICTURE AND BAR GRAPHS

A cartoon fox mascot with orange fur, large eyes, and a purple scarf, holding a yellow pencil.

🔥🔥🔥 **Spicy**

Scaled picture and bar graphs / practice · page 9



GRADE 3 / PRACTICE

SCALED PICTURE AND BAR GRAPHS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔥🔥🔥 Spicy

7. Can data A=6, B=10, C=8, D=4 be shown by different scales? Explain what must stay unchanged.

Grid area for student work.

My answer / conclusion: _____



GRADE 3 / PRACTICE

SCALED PICTURE AND BAR GRAPHS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

Extra Spicy

8. Design a misleading graph for $A=6$, $B=10$, $C=8$, $D=4$ by omitting information. Explain how to repair it.

My answer / conclusion: _____