

Grade 3 - Scaled Graphs and Line Plots - Test

Common Core 3.MD.B.3, 3.MD.B.4 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This **graphs test** for 3rd Grade covers scaled graphs and line plots (Common Core 3.MD.B.3, 3.MD.B.4), with a free PDF to print.

This test checks scaled picture graphs, scaled bar graphs, measuring to the half and fourth inch, and line plots. It has 8 questions worth 20 points. Read each key and scale first, show your work, and finish in 45 minutes.

Time and points

About this test

- Grade: Grade 3
- Chapter: Scaled Graphs and Line Plots
- Standards: 3.MD.B.3, 3.MD.B.4
- Time: 45 minutes
- Total: 20 points

Graphs test: questions

Question 1 - Favorite pets [3 pts]

Each star stands for 4 students.

Favorite Pets

Dog	☆☆☆☆☆☆
Cat	☆☆☆½
Fish	☆☆½
Bird	☆☆☆☆½

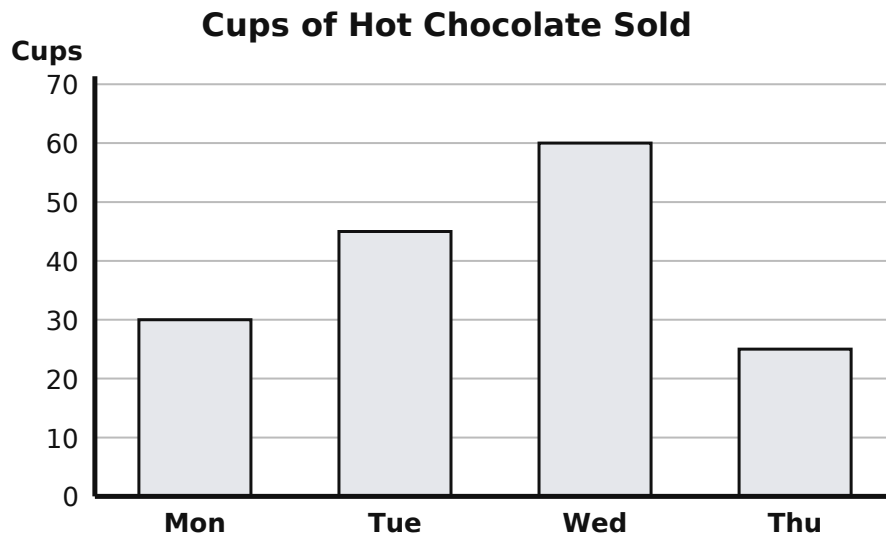
☆ Key: each star = 4 students; half star = 2 students

Picture graph for Question 1.

- a. How many students chose cats?
- b. How many more students chose dogs than fish?
- c. How many students answered in all?

Question 2 - Hot chocolate [3 pts]

Use the bar graph.

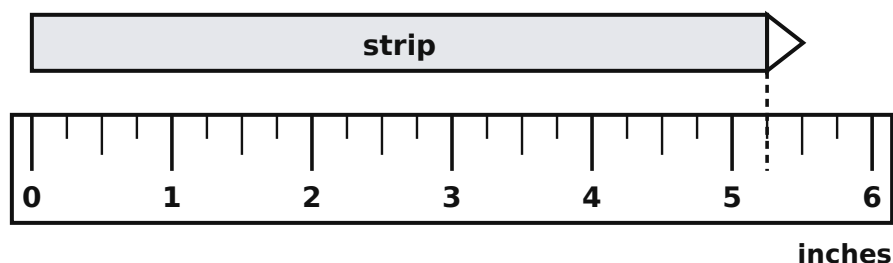


Bar graph for Question 2.

- a. How many cups were sold on Wednesday?
- b. How many more cups were sold on Tuesday than on Thursday?
- c. How many cups were sold on the four days?

Question 3 - Measure the strip [2 pts]

A paper strip is shown.



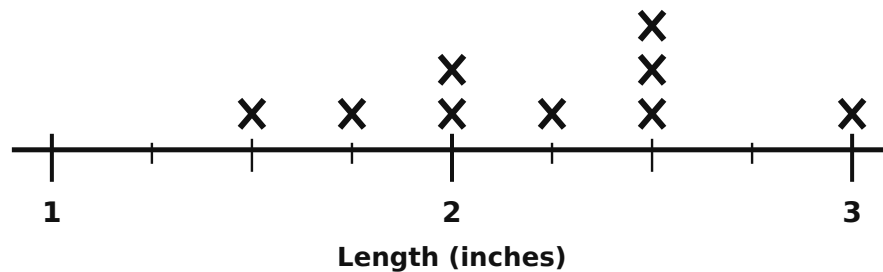
Ruler for Question 3.

- a. Write the length of the strip to the nearest fourth of an inch.
- b. A second strip is one fourth of an inch longer. How long is it?

Question 4 - Bean plants [2 pts]

The line plot shows the heights of sunflower seedlings.

Sunflower Heights



Line plot for Question 4.

- How many seedlings are 2 inches tall?
- How many seedlings are shorter than 2 inches?

Question 5 - Club members [3 pts]

The table shows how many students joined each club.

Club	Students
Chess	20
Art	35
Drama	15
Band	30

Make a bar graph for the data. Use a scale that counts by 5. Give the graph a title and label the bars.

Question 6 - Stars for students [2 pts]

In a picture graph, each star stands for 10 students.

- How many stars show 60 students?
- How can 45 students be shown?

Question 7 - Bakery sales [2 pts]

Each star stands for 6 muffins and a half star stands for 3. On Saturday the bakery sold 4 whole stars and 1 half star. On Sunday it sold 3 whole stars.

- How many more muffins were sold on Saturday?
- How many muffins were sold on both days?

Question 8 - Pencil stubs [3 pts]

Nine pencil stubs have these lengths in inches: $2\frac{1}{4}$, $2\frac{1}{2}$, $2\frac{1}{4}$, 3, $2\frac{3}{4}$, $2\frac{1}{4}$, 3, $2\frac{1}{2}$, $3\frac{1}{4}$. Make a line plot of the data.

Key facts behind this graphs test

Key facts

- The key tells what one symbol is worth; a half symbol is worth half.
- On a bar graph, read the scale before reading a bar.
- A bar halfway between two lines is halfway between their values.
- A ruler is marked in inches, halves, and fourths.
- On a line plot, each X is one measurement.

How to use this graphs test

Time yourself: the test is designed for an average student in 45 minutes. Answer the questions you are sure of first, then come back to the longer ones and check your units.