

Grade 3 - Scaled Graphs and Line Plots - Worksheet

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

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

This **graphs practice worksheet** 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.

These 20 problems practice reading and comparing scaled picture graphs and bar graphs, measuring lengths to the half inch and fourth inch, and reading line plots (3.MD.B.3 and 3.MD.B.4).

Start with the key or the scale, then read the values. The last six problems ask for more than one step, so write each step.

Grade 3 · Common Core State Standards: **3.MD.B.3, 3.MD.B.4**

Graphs practice worksheet: exercises 1 to 10

Exercise 1 - Read the picture graph

Each star stands for 4 books. How many books did the Blue team read?

Books Read in March



 **Key: each star = 4 books; half star = 2 books**

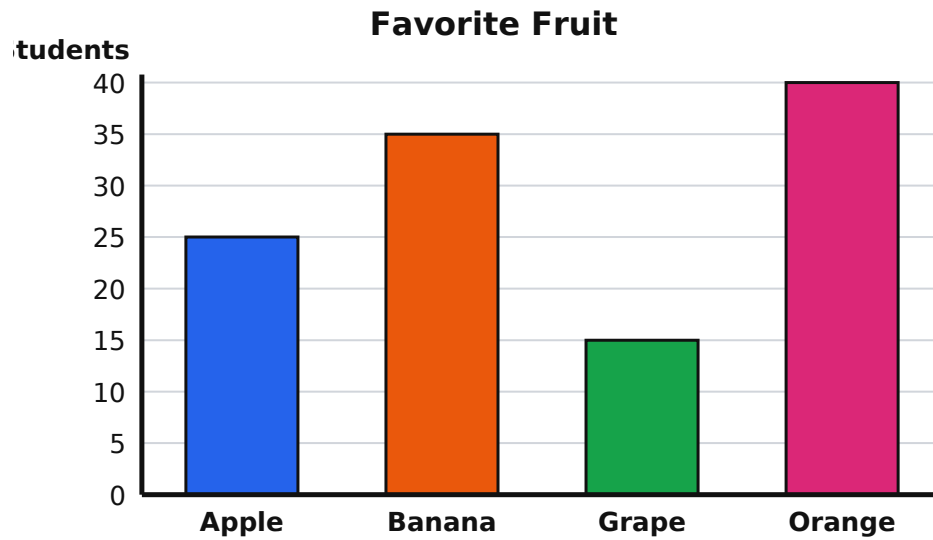
Graph for Problem 1.

Exercise 2 - Stars for a total

In a picture graph, each star stands for 5 students. How many stars show 35 students? How many show 25 students?

Exercise 3 - Read the bar graph

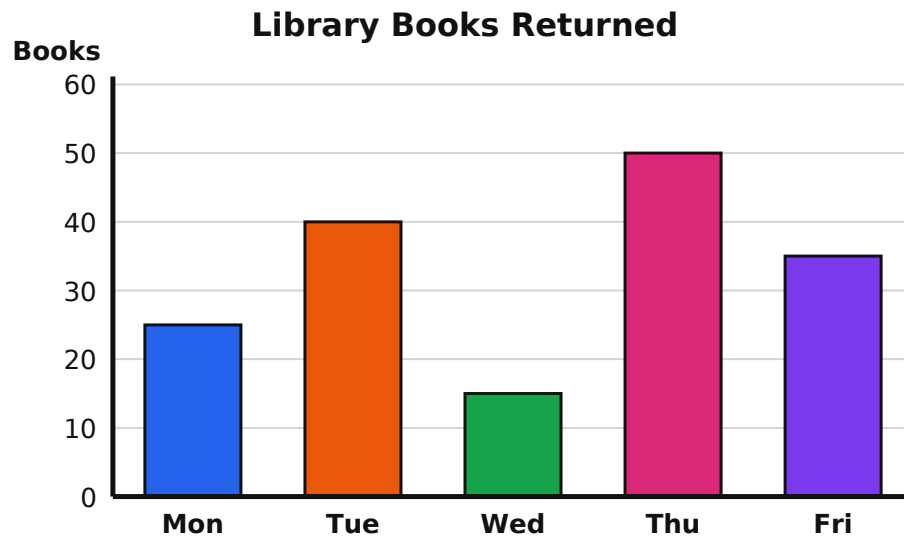
How many students chose bananas?



Graph for Problem 3.

Exercise 4 - How many more pages

How many more books were returned on Thursday than on Monday?



Graph for Problem 4.

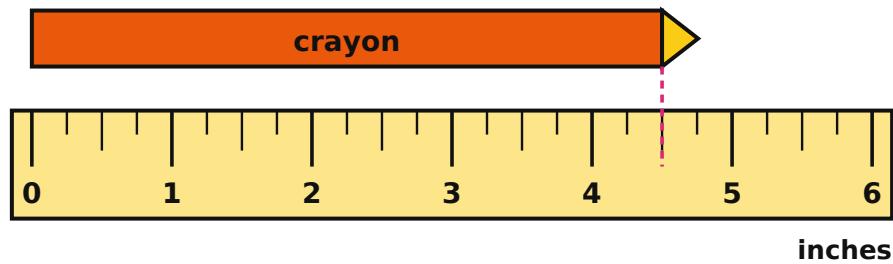
Exercise 5 - Halfway on the scale

The scale on a bar graph counts by 10: 0, 10, 20, 30. A bar ends halfway between 20 and 30.

What number does the bar show?

Exercise 6 - Measure the crayon

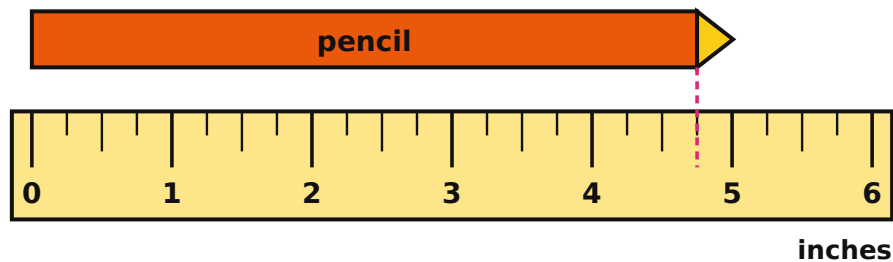
Write the length of the crayon to the nearest fourth of an inch.



Ruler for Problem 6.

Exercise 7 - Measure the pencil

The pencil starts at 0. Where does its tip end? Write the length in inches.



Ruler for Problem 7.

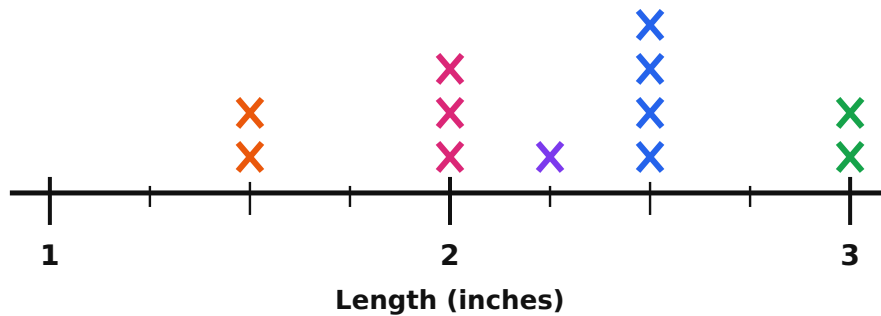
Exercise 8 - Count the marks

A ribbon is $2\frac{1}{4}$ inches long. How many fourth-inch marks is that from 0 on a ruler?

Exercise 9 - Read the line plot

How many leaves are 2 inches long?

Leaf Lengths

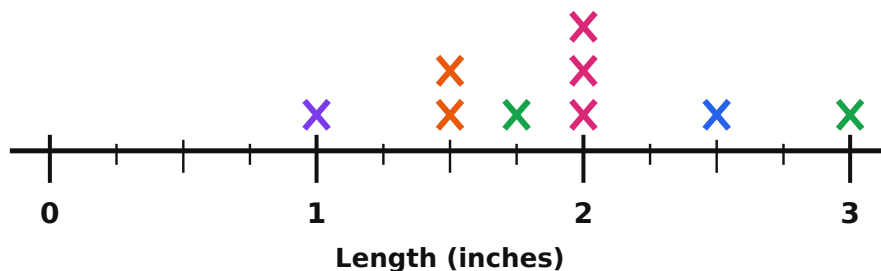


Line plot for Problem 9.

Exercise 10 - Longer than the mark

How many ribbon pieces are longer than $1\frac{1}{2}$ inches?

Ribbon Pieces



Line plot for Problem 10.

Exercises 11 and up

Exercise 11 - Build a line plot

Pedro measures 8 shells in inches: $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{1}{4}$, 2, $1\frac{3}{4}$, $1\frac{1}{4}$, 2, $1\frac{1}{2}$. He makes a line plot. How many Xs go above $1\frac{1}{4}$?

Exercise 12 - Picture graph with halves

Each star stands for 10 cans. How many more cans did Room 3 collect than Room 2? How

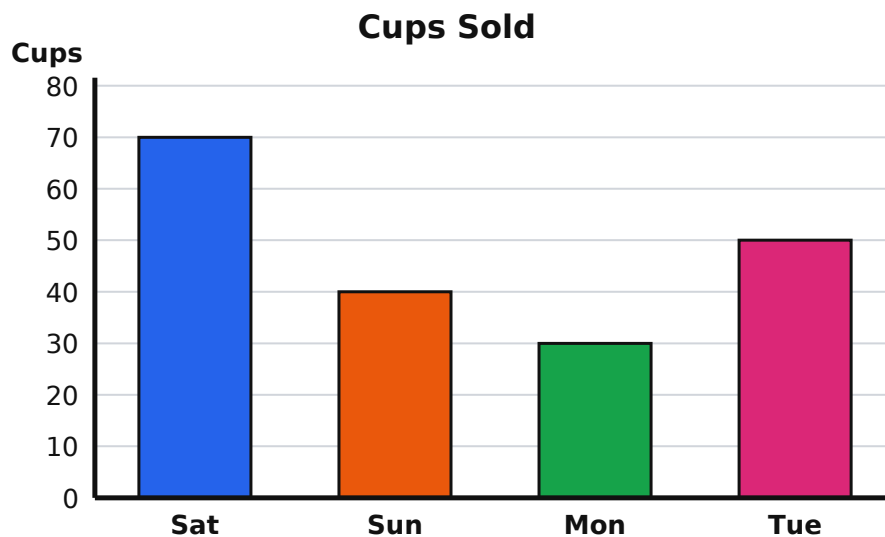
many cans did all four rooms collect?



Graph for Problem 12.

Exercise 13 - Cups of lemonade

How many cups were sold on Saturday and Sunday together? How many fewer cups were sold on Monday than on Saturday?



Graph for Problem 13.

Exercise 14 - Sports votes

Each star in a picture graph stands for 4 students. Swimming has 7 stars and hiking has 4 stars. How many more students chose swimming?

Exercise 15 - Street fair

A bar graph scale counts by 10. The Maple Street bar ends halfway between 30 and 40. The Oak Street bar ends at 60. How many more people are on Oak Street?

Exercise 16 - Book fair

Each star stands for 8 books and a half star stands for 4. Room A has 3 whole stars and a half star. Room B has 5 whole stars. How many books do the two rooms have in all?

Exercise 17 - Pencil lengths

A line plot shows 3 pencils at 4 inches, 5 pencils at $4\frac{1}{2}$ inches, and 2 pencils at 5 inches. How many pencils were measured? How many pencils are longer than 4 inches?

Exercise 18 - Raffle tickets

A bar graph has a scale that counts by 5. Sam sold 35 tickets, Tia sold 20, and Uma sold 30. How many tickets did the three students sell? How many more did Tia and Uma sell together than Sam?

Exercise 19 - Reading minutes

A bar graph has a scale that counts by 2. Maya's bar reaches 14 books and Leo's bar reaches 8 books. How many books did they read together? How many more did Maya read?

Exercise 20 - Pizza slices

Each star stands for 2 slices and a half star stands for 1 slice. On Tuesday the picture graph shows 6 whole stars and 1 half star. On Wednesday it shows 9 whole stars. How many more slices were eaten on Wednesday?

Key facts behind this graphs practice worksheet

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 practice worksheet

Work through the exercises in order: they go from simple to challenging. Write every step on paper, then compare with the solutions page and redo any exercise you missed the next day.

Download the graphs practice worksheet as a PDF with the button below and keep it with your

notes.

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