

Grade 3 · Scaled Graphs and Line Plots · Worksheet

Common Core 3.MD.B.3, 3.MD.B.4 · mathovore.fr

Name: _____ Date: ____/____/____ Score: _____

These 22 problems practice scaled picture graphs, scaled bar graphs, and line plots from standards 3.MD.B.3 and 3.MD.B.4. The first problems read the key and the scale, find how many more or how many fewer, and measure lengths on a ruler.

The later problems use line plots with halves and fourths of an inch and two-step graph questions about recycling, sports votes, and cupcakes. Write the unit in each answer.

Grade 3 Common Core: 3.MD.B.3 · 3.MD.B.4

Problem 1: Read the key

Each circle stands for 2 pieces of fruit. How many peaches were sold?

Fruit Sold

Pears 

Plums 

Peaches 

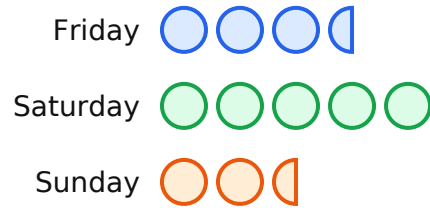
 **Key: each circle = 2 pieces**

Picture graph for Exercise 1.

Problem 2: Half circle

How many tickets were sold on Friday?

Tickets Sold



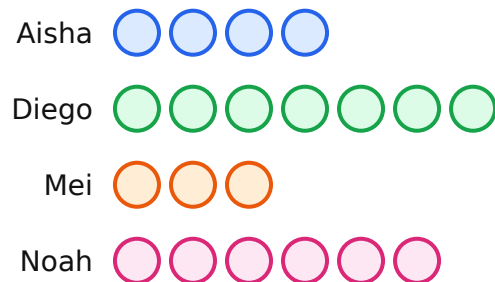
 **Key: each circle = 10 tickets**

Picture graph for Exercise 2.

Problem 3: How many more

How many more stickers did Diego collect than Mei?

Stickers Collected



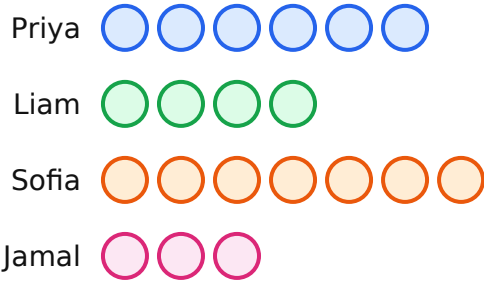
 **Key: each circle = 5 stickers**

Picture graph for Exercise 3.

Problem 4: Total books

How many books did the four students read in all?

Books Read



○ Key: each circle = 2 books

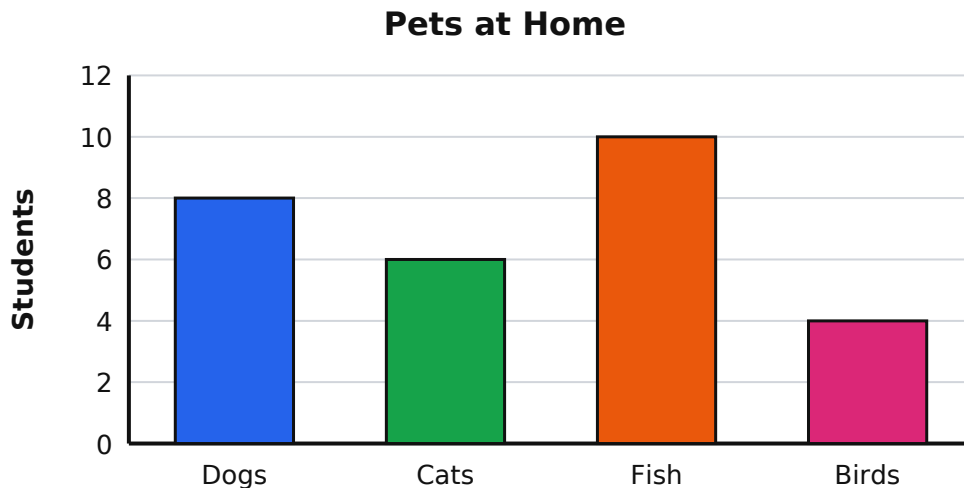
Picture graph for Exercise 4.

Problem 5: Make a picture graph

A table shows how many students chose each sport: Soccer 12, Tennis 8, Swimming 16, Baseball 10. Each circle will stand for 4 students. How many circles does each row need?

Problem 6: Bar graph by twos

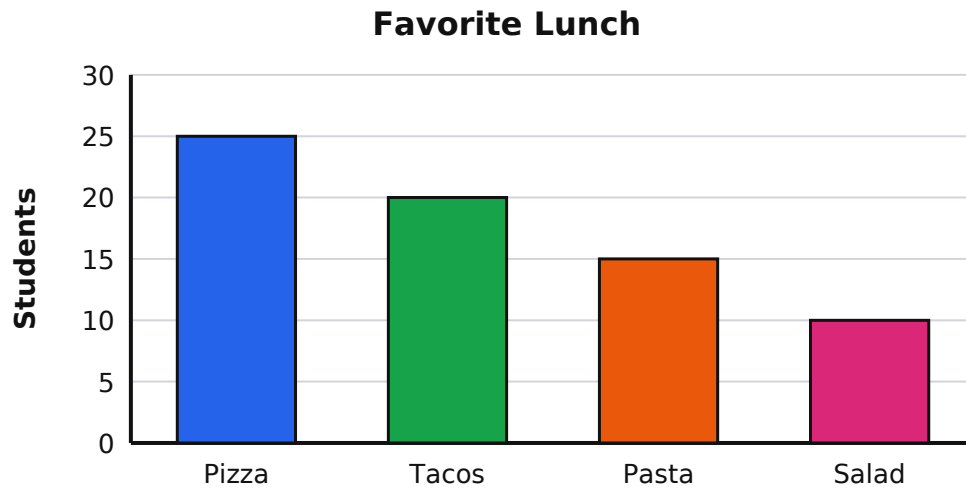
How many students have a fish?



Bar graph for Exercise 6.

Problem 7: Lunch votes

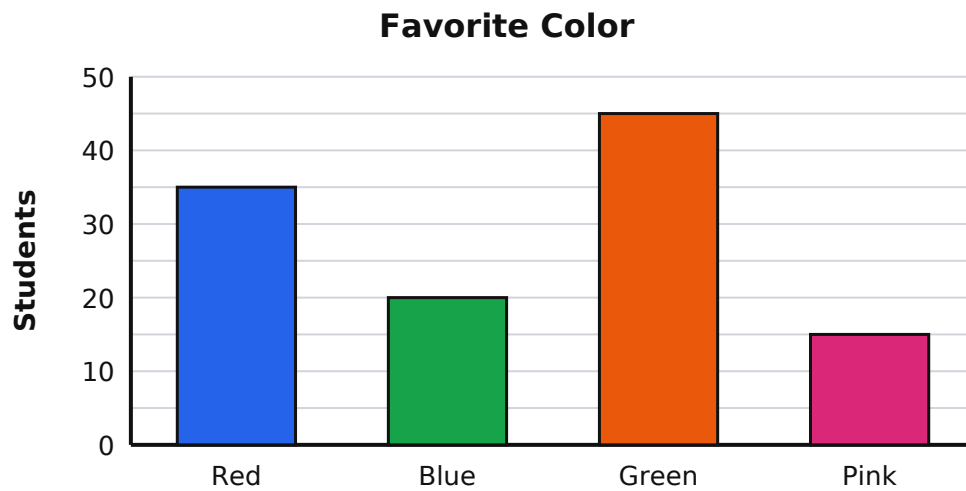
How many more students chose pizza than salad?



Bar graph for Exercise 7.

Problem 8: How many fewer

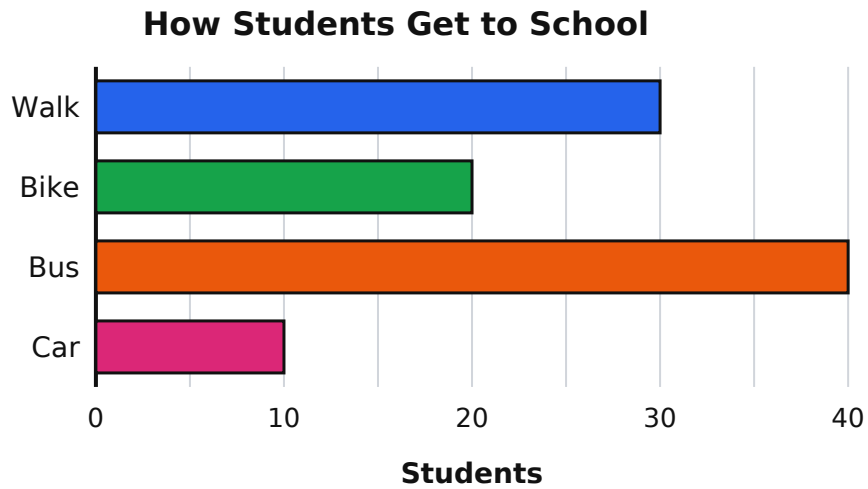
How many fewer students chose pink than green?



Bar graph for Exercise 8.

Problem 9: Going to school

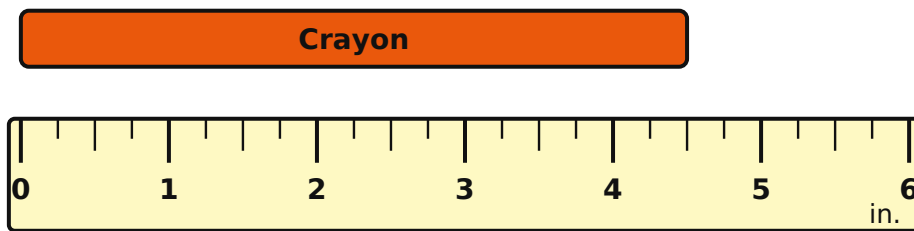
How many students were asked in all?



Bar graph for Exercise 9.

Problem 10: Measure the crayon

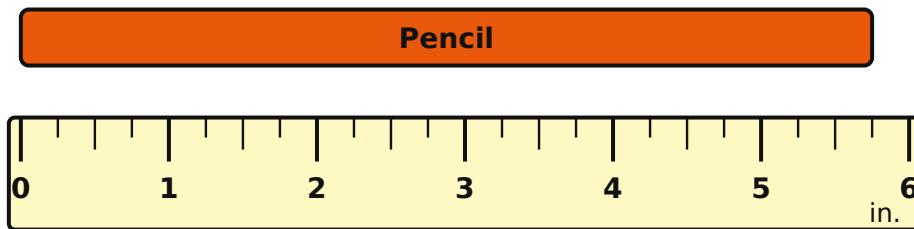
Measure the length of the crayon to the nearest half inch.



Ruler for Exercise 10.

Problem 11: Measure the pencil

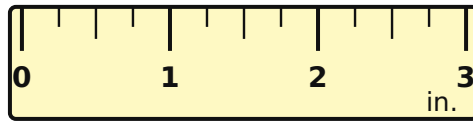
Measure the length of the pencil to the nearest fourth of an inch.



Ruler for Exercise 11.

Problem 12: Measure the ribbon

Measure the length of the ribbon to the nearest fourth of an inch.

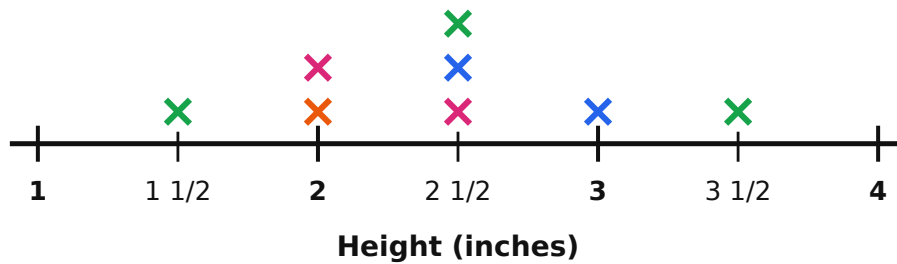


Ruler for Exercise 12.

Problem 13: Seedling line plot

The line plot shows the heights of 8 seedlings. How many seedlings are $2\frac{1}{2}$ inches tall?

Height of Seedlings

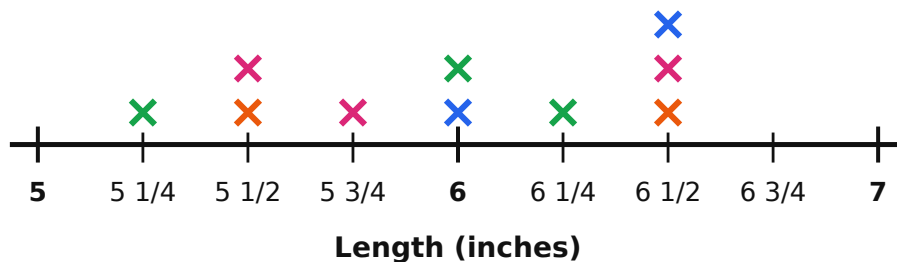


Line plot for Exercise 13.

Problem 14: Short pencils

How many pencils are shorter than 6 inches?

Pencil Lengths



Line plot for Exercise 14.

Problem 15: Make a line plot

Eight leaves have these lengths in inches: $2\frac{1}{4}$, $2\frac{3}{4}$, 3, $2\frac{1}{2}$, 3, $2\frac{3}{4}$, $2\frac{3}{4}$, $3\frac{1}{4}$. Draw a line plot with a

number line from 2 to 4 marked in fourths. Which length is the most common?

Problem 16: Longest and shortest

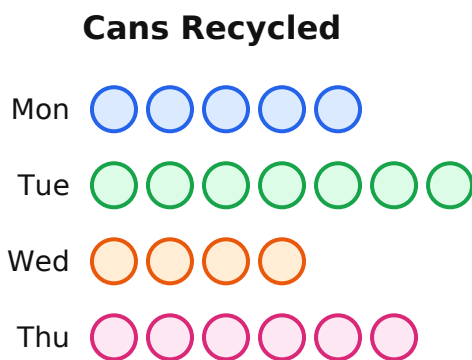
The line plot shows the lengths of 8 ribbons. How many inches longer is the longest ribbon than the shortest ribbon?



Line plot for Exercise 16.

Problem 17: Recycling cans

How many cans were recycled on Monday and Thursday together? How many more is that than the cans recycled on Tuesday?

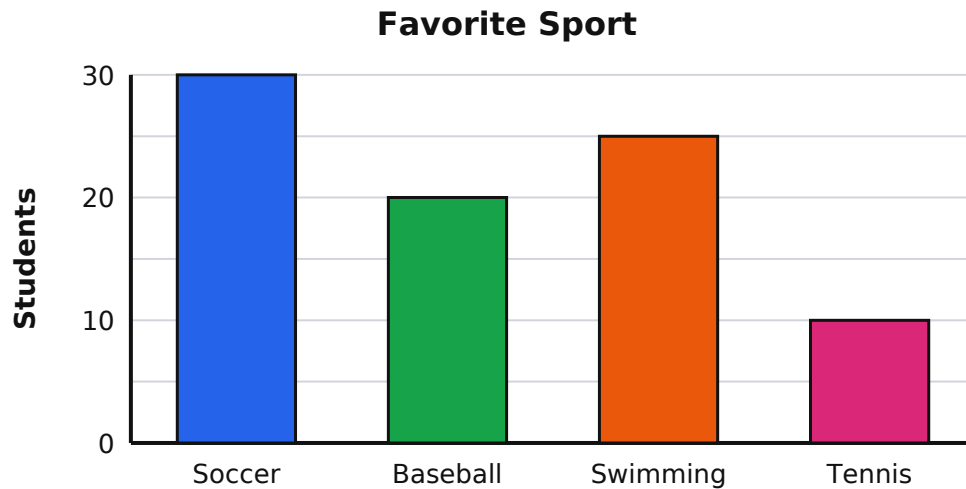


 **Key: each circle = 5 cans**

Picture graph for Exercise 17.

Problem 18: Sports votes

How many students voted in all? How many fewer students chose tennis than swimming?



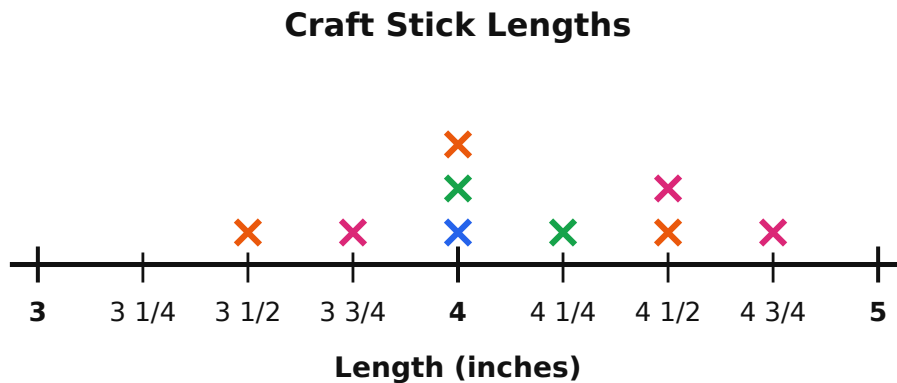
Bar graph for Exercise 18.

Problem 19: Cupcake circles

In a picture graph, each circle stands for 6 cupcakes. Priya's row has 4 whole circles and 1 half circle. Noah's row has 2 whole circles. How many more cupcakes did Priya sell than Noah?

Problem 20: Craft sticks

Diego measured 9 craft sticks. How many craft sticks are 4 inches long or shorter?



Line plot for Exercise 20.

Problem 21: Graph paper squares

Each square of a bar graph stands for 5 votes. How many squares tall is a bar for 35 votes? How many votes does a bar 12 squares tall show?

Problem 22: Travel circles

Jamal asked how his classmates get to school: 25 walk, 15 bike, and 40 ride the bus. In a picture graph each circle will stand for 5 students. How many circles will he draw in all?