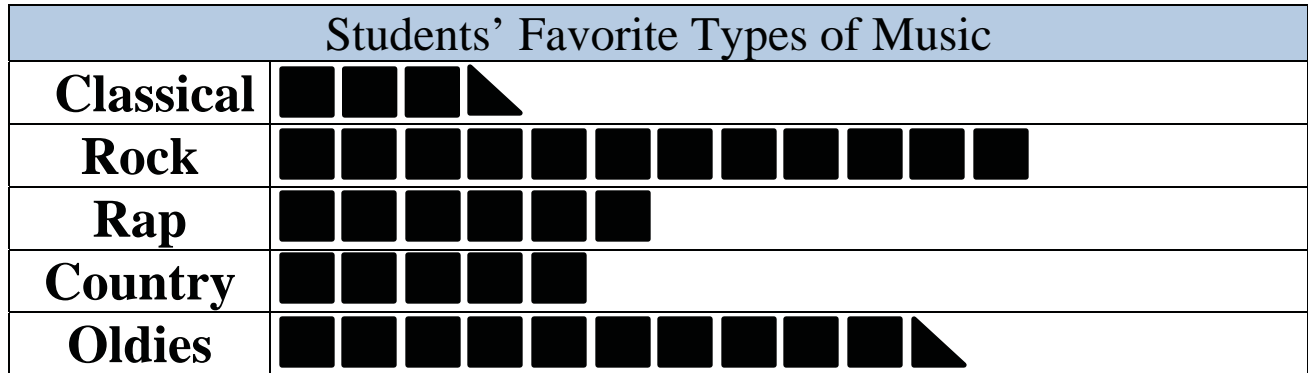


# Lunchtime Music

The principal has asked the third grade students to find out what type of music to play at lunch on Fridays. Many students voted for their favorites. The results are shown on this pictograph.



Key: equals 2 votes

1. Which type of music had the fewest votes? \_\_\_\_\_
2. Which music had ten votes? \_\_\_\_\_
3. How many more students voted for Oldies than voted for Rap?  
Show how you figured it out. \_\_\_\_\_
4. If a total of 30 students voted for Rock, how many symbols would there be for Rock?  
Show how you figured it out. \_\_\_\_\_

The principal made the decision to play music at lunch on Fridays.  
Roger told the principal that Rock music should be played every Friday at lunchtime.

5. Use the information in the graph to explain why someone might disagree with Roger.

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# Patio Tiles

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Mrs. Sakahara will choose one of these tiles to use on a new patio.



Tile 1



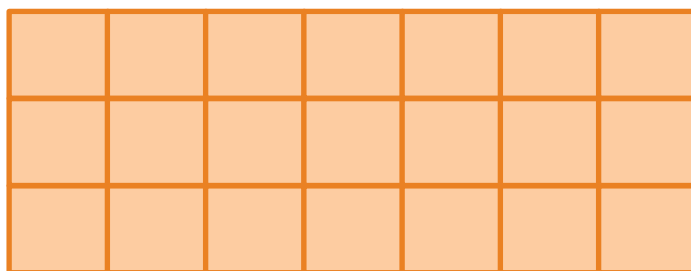
Tile 2



Tile 3

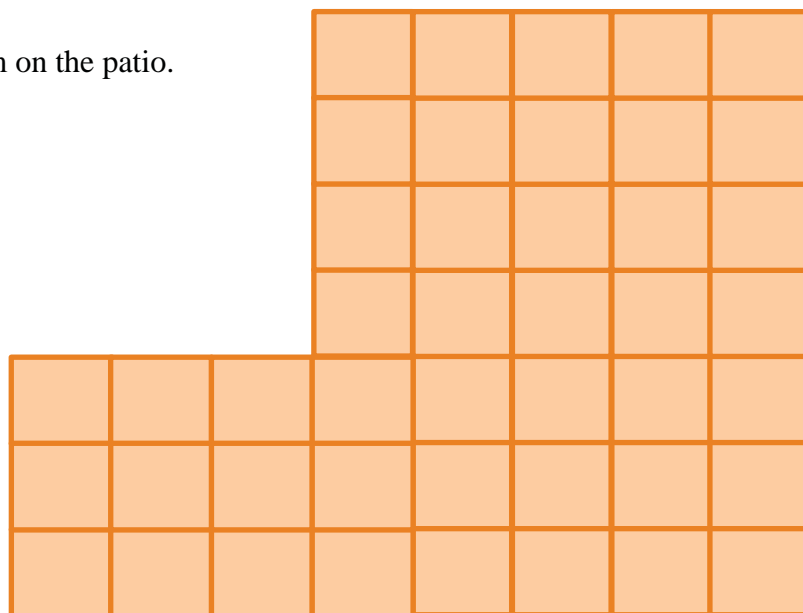
1. Which tile will you use more of to cover the patio? Tile \_\_\_\_\_

Mrs. Sakahara has a box of Tile 1 tiles. Each side of Tile 1 is 1 yard in length. She has an idea for a patio. She has drawn it below.



2. How much area does this patio cover? \_\_\_\_\_ square yards  
Show how you figured it out.

Mr. Sakahara wants more room on the patio.  
This is his plan.



3. How much area is covered by this plan? \_\_\_\_\_ square yards  
Show how you figured it out.

Mrs. Sakahara likes this plan.

4. She wants to put a fence around the three longest sides. She thinks she will need 18 yards of fencing. Explain why she is incorrect.

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# Baseball Championship

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838 people watched the Little League Baseball Championship game.  
474 of them were men.  
165 of them were children.

The rest were women.

1. How many women were there?

Show your work.

2. How many more adults than children were there?

Show your work.

Sarah has saved \$50 for family tickets for next year's game.  
Tickets are \$8.

3. Sarah thinks she has enough to buy 7 tickets for her family.  
She is incorrect.  
Explain how you know she is incorrect.

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The souvenir stand at the game sold t-shirts and hats.  
16 hats were sold.  
Three times as many t-shirts were sold as hats.



4. How many people bought t-shirts?  
Show how you figured it out.

\_\_\_\_\_ t-shirts

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# Birthday Bike Ride

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Lilly was given a \$20 bill for her birthday. She will rent a bike for a ride with her friends.

She knows of three bike stores but is not sure where she will get the best deal.



**All bike stores rent bikes by hour only. There are no partial hours.**

1. At Mike's Bikes, the bikes rent for \$7 an hour but if you pay for two hours, the third hour is free.

How many hours will Lilly get for her \$20 bill? \_\_\_\_\_

Show how you figured it out.

2. At Cyclops Cycles, the bikes rent for \$12 for the first hour and \$2.50 for each additional hour.

How many hours can she rent for her \$20 bill? \_\_\_\_\_

Explain how you figured it out.

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3. At Bargain Bikes, each hour of bike rental costs \$3.50.

How many hours can she rent for her \$20 bill here? \_\_\_\_\_

Show how you figured it out.

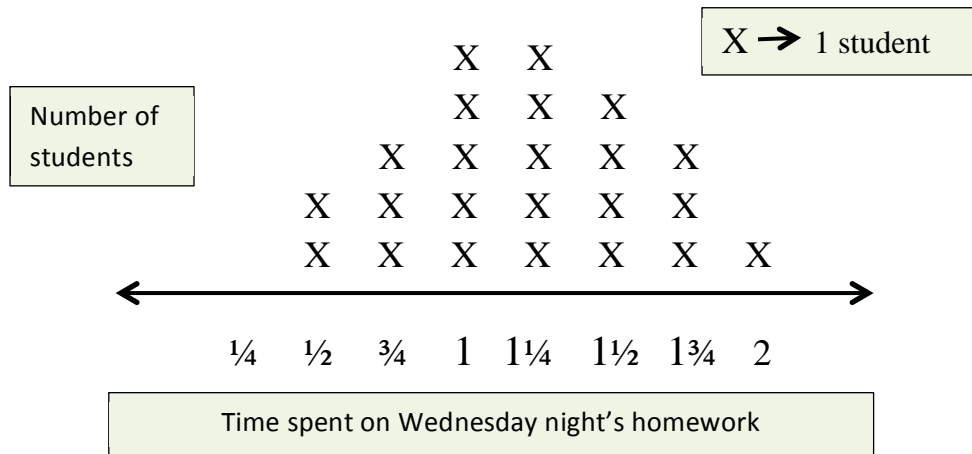
How much change will she receive from her \$20 bill? \_\_\_\_\_

# Homework Time

The fourth graders are curious about the time they spend doing their homework. They kept track of the time on Wednesday night. The table below shows the results of that night's homework time.

Time (in hours) Spent on Homework: <b>Wednesday night</b>	
$\frac{1}{4}$	
$\frac{1}{2}$	
$\frac{3}{4}$	
1	
$1\frac{1}{4}$	
$1\frac{1}{2}$	
$1\frac{3}{4}$	
2	

The data in the chart was recorded in the line plot below.



- The students made one mistake on this graph when they copied the information from the chart.

Circle the mistake.

Explain how you know.

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2. How many students spent  $1\frac{3}{4}$  hours on Wednesday night's homework? \_\_\_\_\_
3. What is the difference between the greatest time spent on homework and the least time spent? \_\_\_\_\_

Show how you figured it out.

4. Using the table on the opposite page, the students have written some information about their time spent on homework.

One of the sentences is not correct. Underline the incorrect sentence.

- 22 students recorded the time they spent on Wednesday's homework.
- Most students spent 1 hour or less on their homework.
- 13 students spent over 1 hour on their homework.

Explain what is wrong with the information in the sentence you underlined.

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