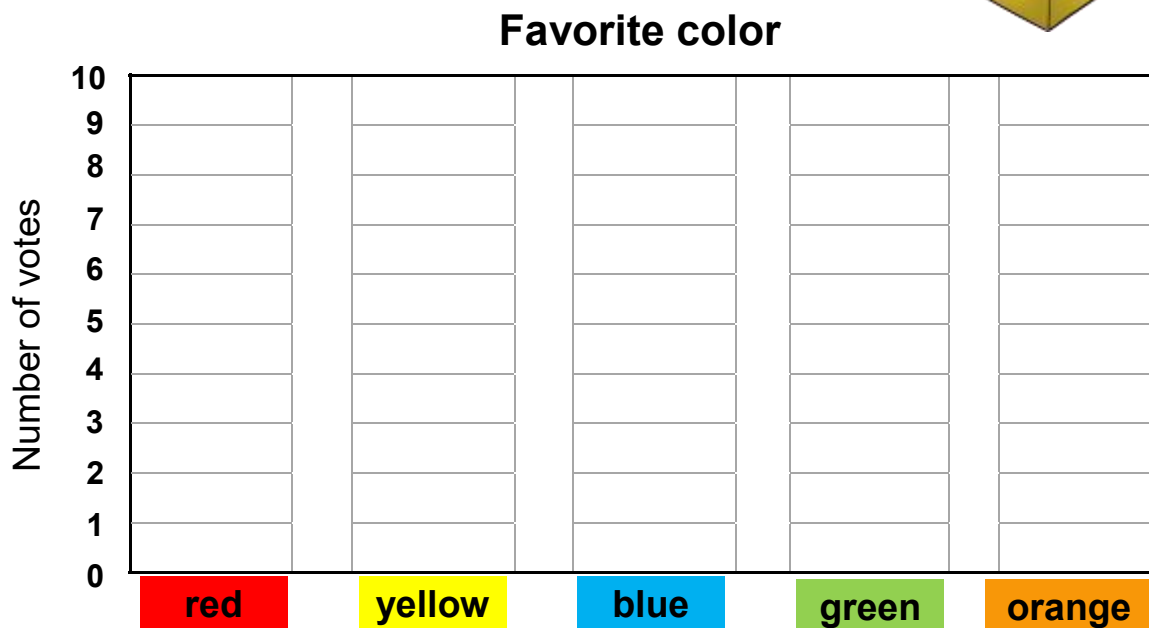# Favorite color bar graph

Data and Graphing Worksheet

Kyla asked her friends to vote on their favorite colors.

Create a bar graph and answer the questions.

Color	red	yellow	blue	green	orange
Votes	6	10	5	6	8

Favorite color

Number of votes

10
9
8
7
6
5
4
3
2
1
0

red   yellow   blue   green   orange

1. What color is liked the most? _____

2. What color is liked the least? _____

3. What two colors got a total of 12 votes? _____

4. How many more votes did red have than blue? _____

5. How many fewer votes did blue have than yellow? _____

6. How many kids voted for red, green and orange? _____

7. What is the difference between the votes for orange and blue? _____

8. How many votes were there in total? _____

Answers

Color	red	yellow	blue	green	orange
Votes	6	10	5	6	8

Favorite color
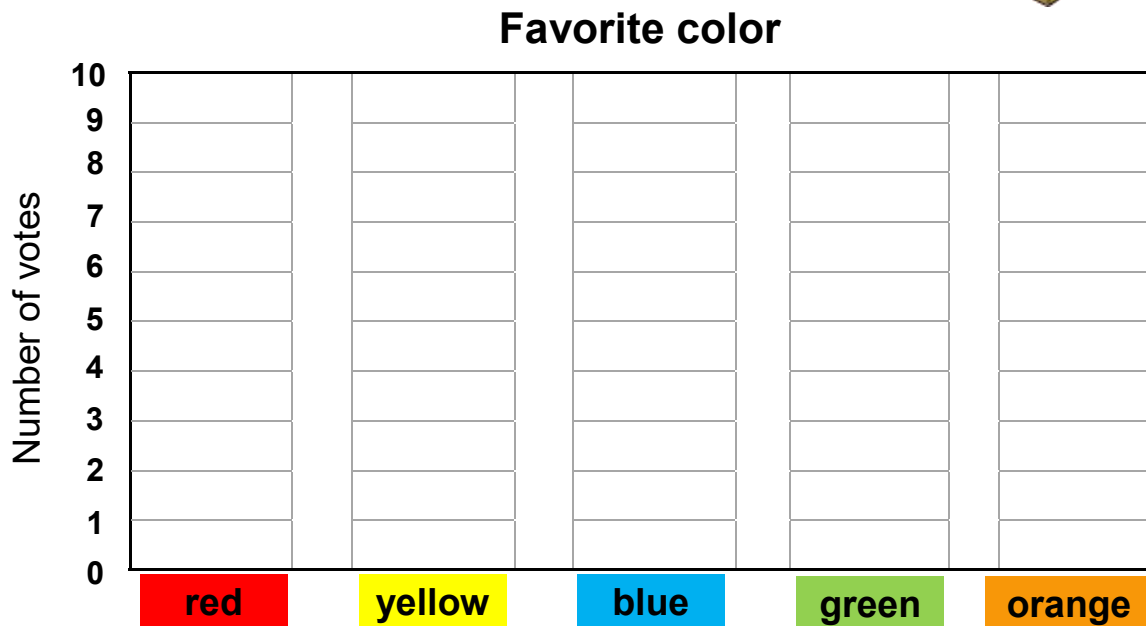
What color is liked the most?	yellow
What color is liked the least?	blue
What two colors got a total of 12 votes?	red and
How many more votes did red have than blue?	1
How many fewer votes did blue have than yellow?	5
How many kids voted for red, green and orange?	20
What is the difference between the votes for orange and blue?	3
How many votes were there in total?	35

Tools bar graph

Data and Graphing Worksheet

Vince recorded the total number of each tool.

Create a bar graph and answer the questions.

Tools	Saw	Hammer	Screwdriver	Shovel
Total number	5	9	8	8

Construction tools

Total number of each item

10
9
8
7
6
5
4
3
2
1
0

1. How many screwdrivers are there? _____
2. Which tool is the greatest in number? _____
3. Which tool is the least in number? _____
4. Which tools have the same number? _____
5. How many shovels and hammers are there? _____
6. If Vince added six more hammers, how many _____
hammers would there be?

Answers

Tools	Saw	Hammer	Screwdriver	Shovel
Total number	5	9	8	8

Construction tools

Total number of each item

10
9
8
7
6
5
4
3
2
1
0

How many screwdrivers are there?	8
Which tool is the greatest in number?	hammer
Which tool is the least in number?	saw
Which tools have the same number?	screwdriver and shovel
How many shovels and hammers are there?	17
If Vince added six more hammers, how many hammers would there be?	15

Juice store bar graph

Data and Graphing Worksheet

A fruit juice store recorded the number of glasses sold.

Create a bar graph and answer the questions.

Fruit juice	Lemon	Grape	Apple	Orange
Number of glasses sold	7	10	9	8

Fruit juice store

1. What juice sold the most?　　　　　　　　　　　　_____

2. What juice sold the least?　　　　　　　　　　　　_____

3. How many glasses of apple juice were sold?　　_____

4. How many more glasses of grapes juice　　　　_____
were sold than lemon juice?

5. How many glasses of orange and apple juice　_____
together were sold?

6. How many glasses were sold in all?　　　　　　_____

Answers

Fruit juice	Lemon	Grapes	Apple	Orange
Number of glasses sold	7	10	9	8

Fruit juice store
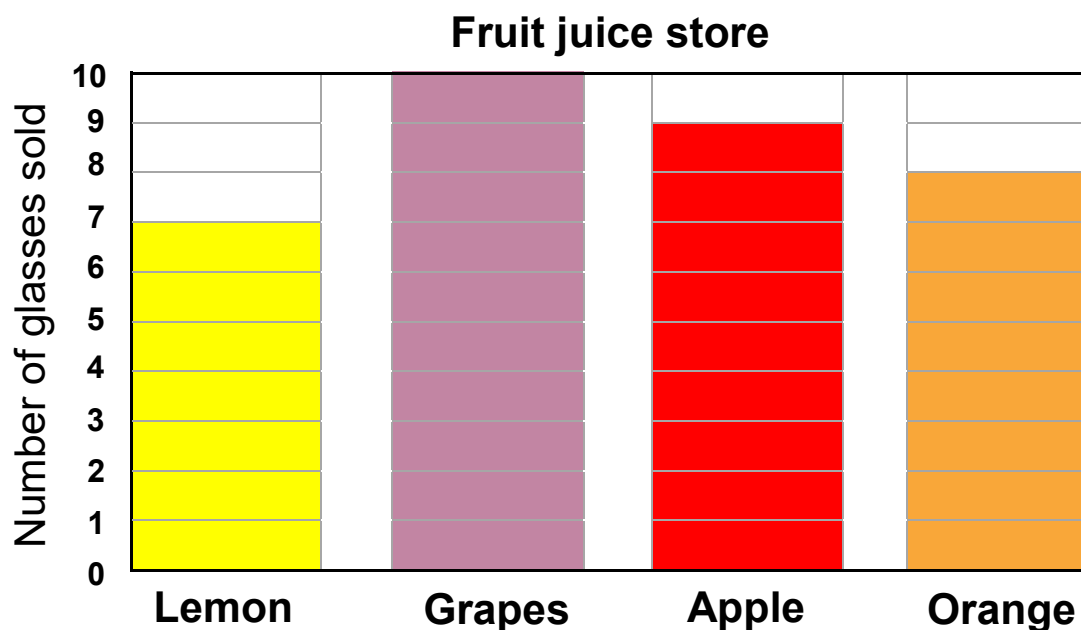
What juice sold the most?	Grapes
What juice sold the least?	Lemon
How many glasses of apple juice were sold?	9
How many more glasses of grapes juice were sold than lemon juice?	3
How many glasses of orange and apple juice together were sold?	17
How many glasses were sold in all?	34

Ribbon length line plot

Dan cut 12 pieces of ribbon and recorded each length.

Create a line plot using the data.

Ribbon length

15 cm	20 cm	25 cm	15 cm	20 cm	20 cm
25 cm	20 cm	15 cm	30 cm	20 cm	30 cm
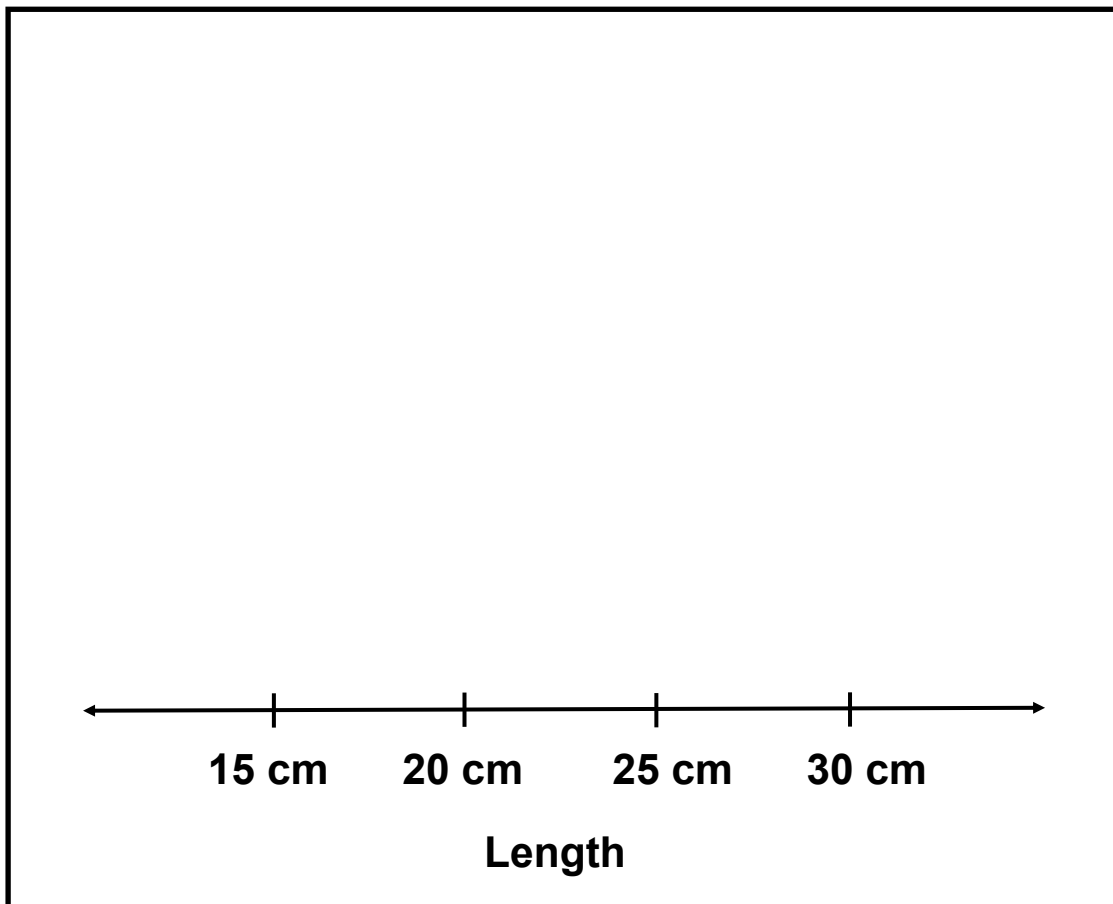
```
←———————+————————+————————+————————+———————→
      15 cm    20 cm    25 cm    30 cm
                  Length
```

Ribbon length

15 cm	20 cm	25 cm	15 cm	20 cm	20 cm
25 cm	20 cm	15 cm	30 cm	20 cm	30 cm


```
            X
            X
     X      X
     X      X      X      X
     X      X      X      X
←----|------|------|------|----→
   15 cm  20 cm  25 cm  30 cm
              Length
```
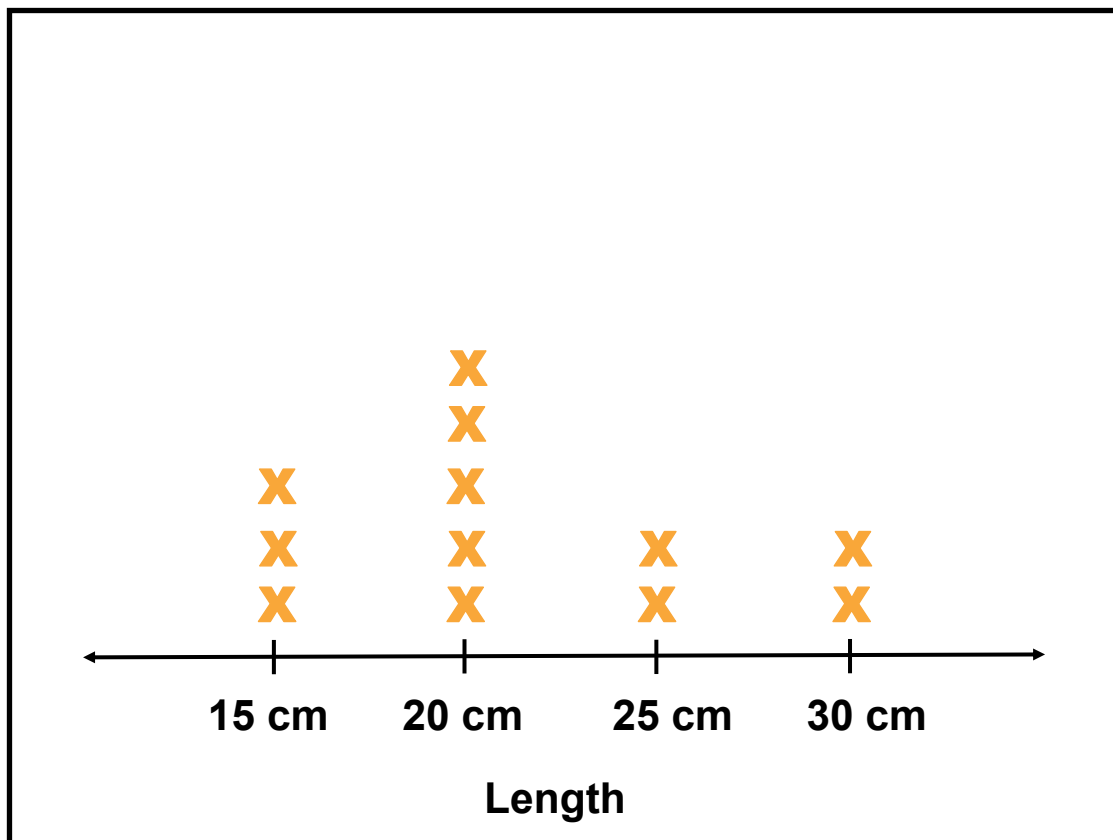
Wild animals line plot

Count each animal and make a line plot.

Wild animals
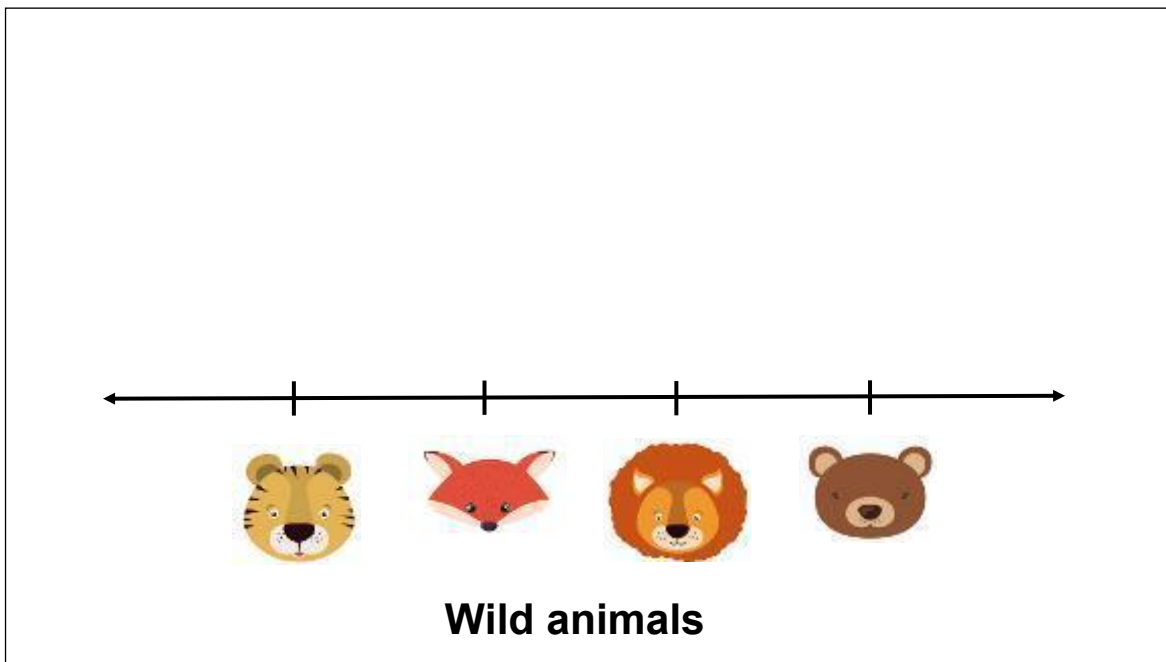
Wild animals

Answers

Wild animals

Wild animals
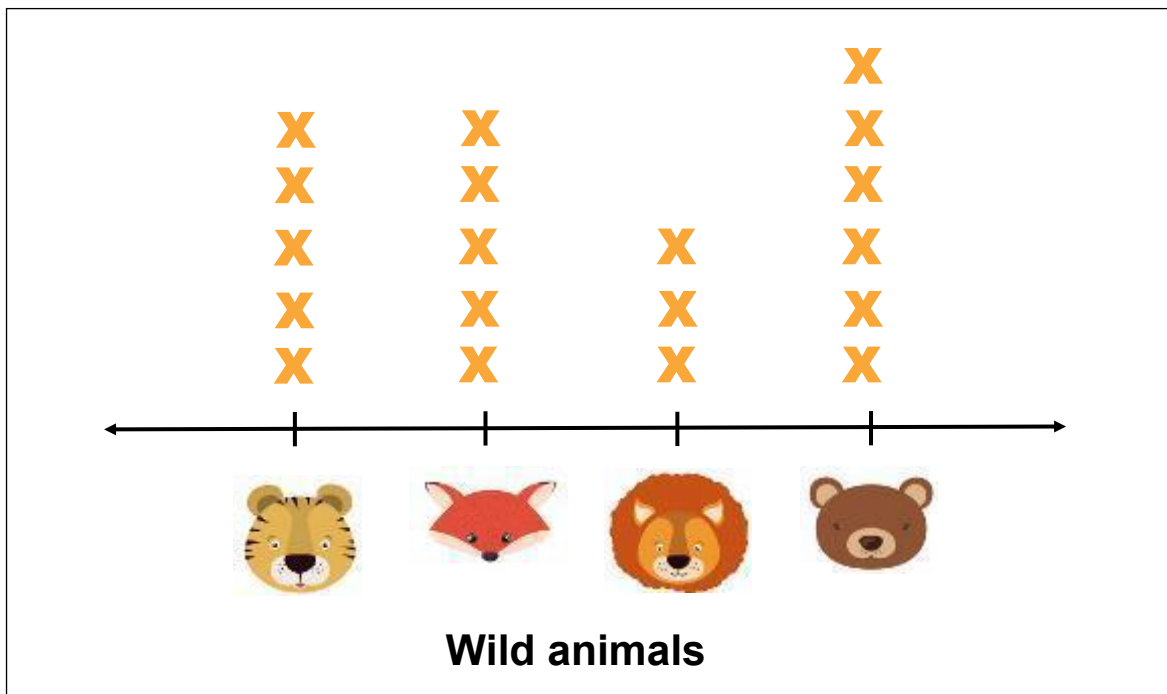
Candy shop line plot

Data and Graphing Worksheet

The line plot shows the number of candies in the shop.

Write the number of each candy.

Candy shop

Answers

Candy shop

🍬	🍭	🟢	🟡
6	4	6	8
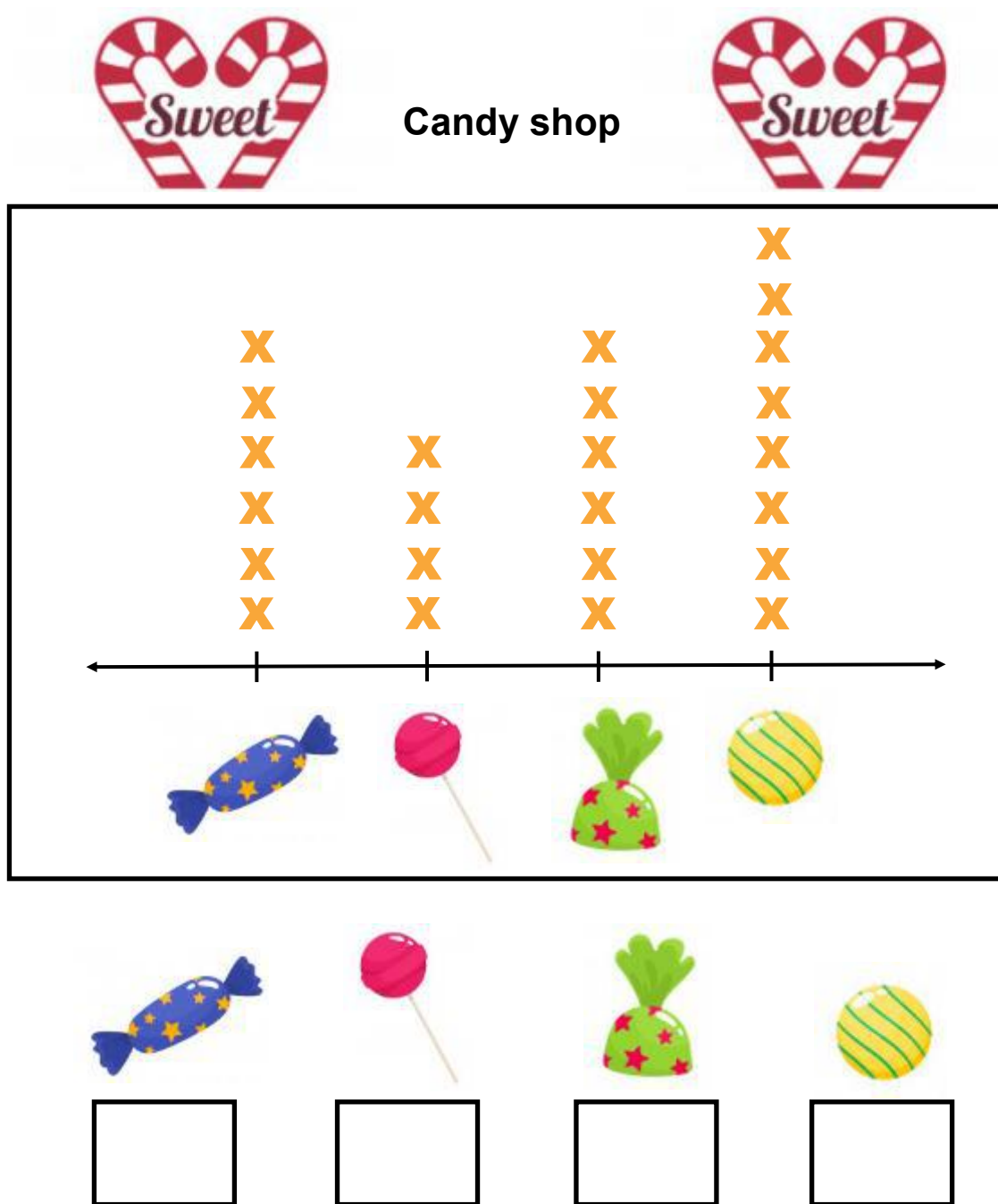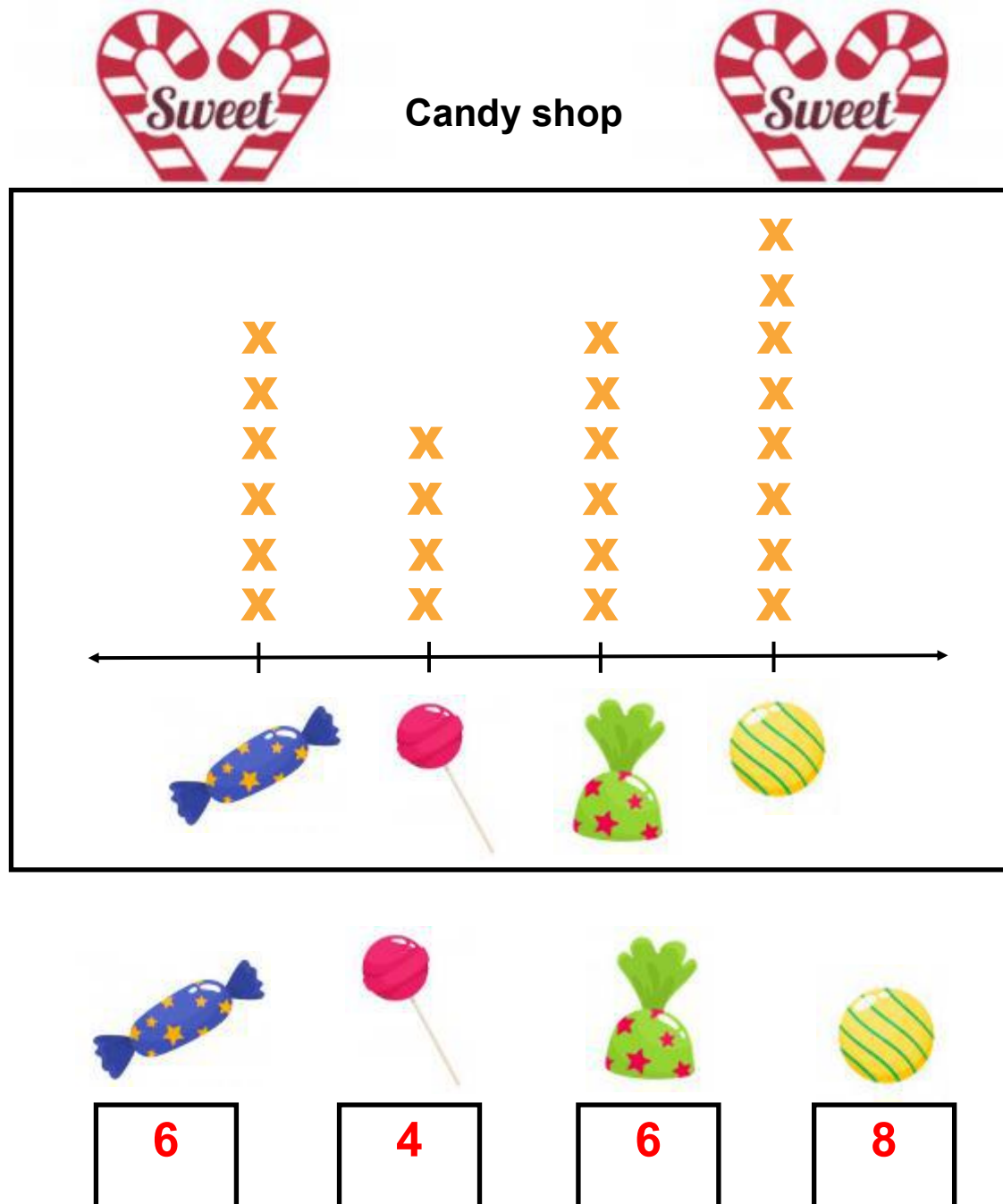
Cleaning supplies line plot

Data and Graphing Worksheet

The line plot shows the number of cleaning supplies in the house. Write the number of each item inside the box.

Cleaning supplies

		X	
	X	X	
	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X

sponge   rubber gloves   soap   brush

Cleaning supplies

```
                                    X
                    X               X
                    X               X           X
        X           X               X           X
        X           X               X           X
        X           X               X           X
   ─────┼───────────┼───────────────┼───────────┼─────►
```

sponge   rubber gloves   soap   brush
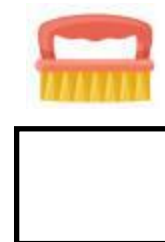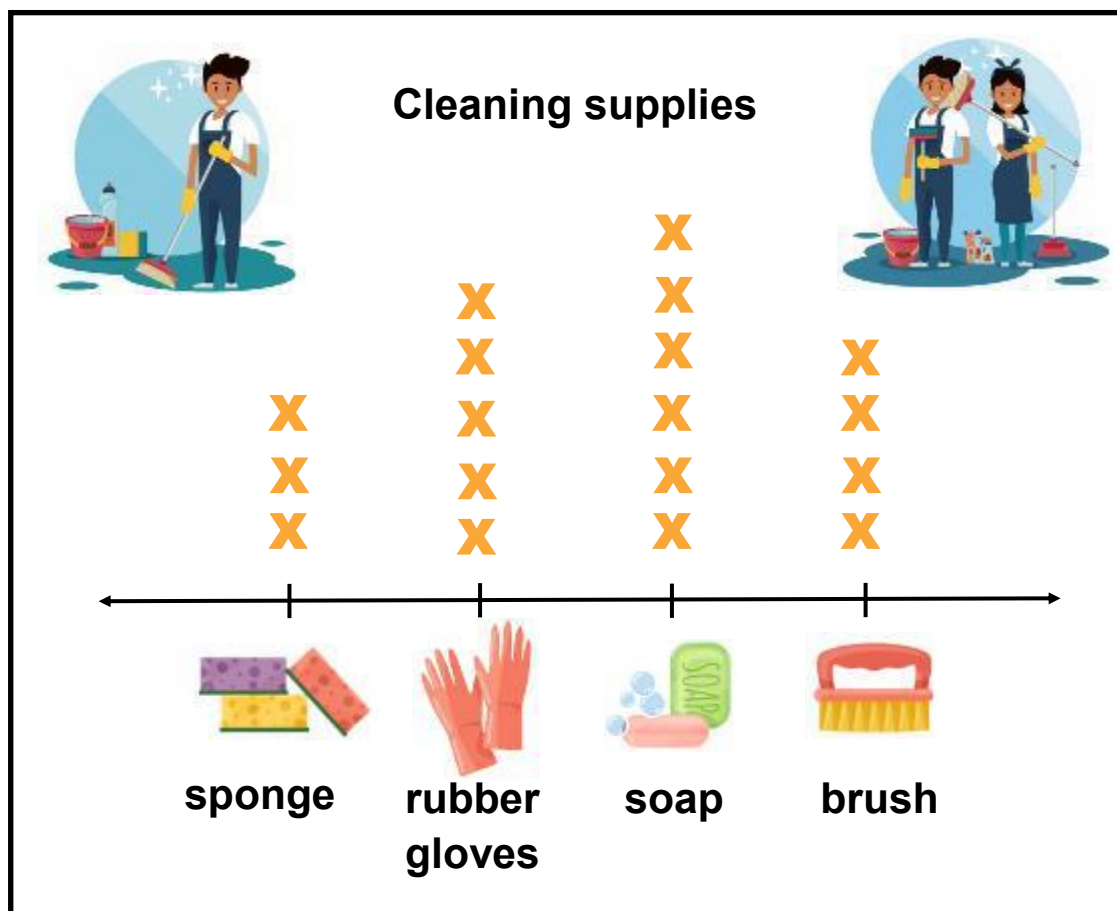
| 3 | 5 | 6 | 4 |

Apple pie sales pictograph

Data and Graphing Worksheet

Jan recorded her apple pie sales for five days.

Number of apple pies sold

Day 1	Day 2	Day 3	Day 4	Day 5
		🥧		
🥧		🥧		🥧
🥧	🥧	🥧		🥧
🥧	🥧	🥧	🥧	🥧
🥧	🥧	🥧	🥧	🥧
🥧	🥧	🥧	🥧	🥧

🥧 = 2 apple pies

1. How many apple pies did Jan sell on Day 2?   _____

2. What day did she sell 6 pies?   _____

3. What day did she sell the most pies?   _____

4. What days did she sell the same number of pies?   _____

5. How many more pies did she sell on Day 5 than Day 4?   _____

6. How many apple pies did she sell on Day 2 and Day 3?   _____

Answers

Number of apple pies sold

Day 1	Day 2	Day 3	Day 4	Day 5
		🥧		
🥧		🥧		🥧
🥧	🥧	🥧		🥧
🥧	🥧	🥧	🥧	🥧
🥧	🥧	🥧	🥧	🥧
🥧	🥧	🥧	🥧	🥧
Day 1	**Day 2**	**Day 3**	**Day 4**	**Day 5**

🥧 **= 2 apple pies**

How many apple pies did Jan sell on Day 2? **8**

What day did she sell 6 pies? **Day 4**

What day did she sell the most pies? **Day 3**

What days did she sell the same number of pies? **Day 1 and Day 5**

How many more pies did she sell on Day 5 than Day 4? **4**

How many pies did she sell on Day 2 and Day 3? **20**

Cupcakes pictograph

Data and Graphing Worksheet

Kathy baked cupcakes from Monday to Friday for her friends.
Use the information to answer the questions.

Number of cupcakes

Monday	🧁 🧁 🧁 🧁 🧁 🧁
Tuesday	🧁 🧁 🧁 🧁 🧁 🧁 🧁 🧁
Wednesday	🧁 🧁 🧁 🧁
Thursday	🧁 🧁 🧁 🧁 🧁 🧁 🧁
Friday	🧁 🧁 🧁 🧁 🧁

🧁 **= 1 cupcake**

1. How many cupcakes did Kathy bake on Friday? _____

2. On what day did she bake 7 cupcakes? _____

3. On what day did she bake the fewest cupcakes? _____

4. On what day did she bake the most cupcakes? _____

5. How many cupcakes did she bake on Thursday
and Friday together? _____

Answers

Number of cupcakes

Monday	🧁 🧁 🧁 🧁 🧁 🧁
Tuesday	🧁 🧁 🧁 🧁 🧁 🧁 🧁 🧁
Wednesday	🧁 🧁 🧁
Thursday	🧁 🧁 🧁 🧁 🧁 🧁 🧁
Friday	🧁 🧁 🧁 🧁 🧁

🧁 **= 1 cupcake**

How many cupcakes did Kathy bake on Friday?	5
On what day did she bake 7 cupcakes?	Thursday
On what day did she bake the fewest cupcakes?	Wednesday
On what day did she bake the most cupcakes?	Tuesday
How many cupcakes did she bake on Thursday and Friday?	12

Hotdogs pictograph

Data and Graphing Worksheet

Four friends prepared hotdogs for their picnic day.

Number of hotdogs

Tim	🌭	🌭	🌭					
Jane	🌭	🌭	🌭	🌭	🌭			
Mae	🌭	🌭	🌭	🌭	🌭	🌭	🌭	🌭
Ben	🌭	🌭	🌭					

🌭 = 1 hotdog

1. Who prepared five hotdogs? _____

2. Who prepared the most hotdogs? _____

3. How many hotdogs did Ben prepare? _____

4. Which 2 friends prepared the same number of hotdogs? _____

5. How many hotdogs were prepared by Mae and Ben? _____

Answers

Number of hotdogs

Tim	🌭	🌭	🌭					
Jane	🌭	🌭	🌭	🌭	🌭			
Mae	🌭	🌭	🌭	🌭	🌭	🌭	🌭	🌭
Ben	🌭	🌭	🌭					

🌭 = 1 hotdog

Who prepared five hotdogs?   Jane

Who prepared the most hotdogs?   Mae

How many hotdogs did Ben prepare?   3

Who among of them prepared the same number of hotdogs?   Tim and Ben

How many hotdogs were prepared by Mae and Ben?   11

Musical instrument pictograph

Data and Graphing Worksheet

A group of kids voted for their favorite musical instrument.

Numbers of votes
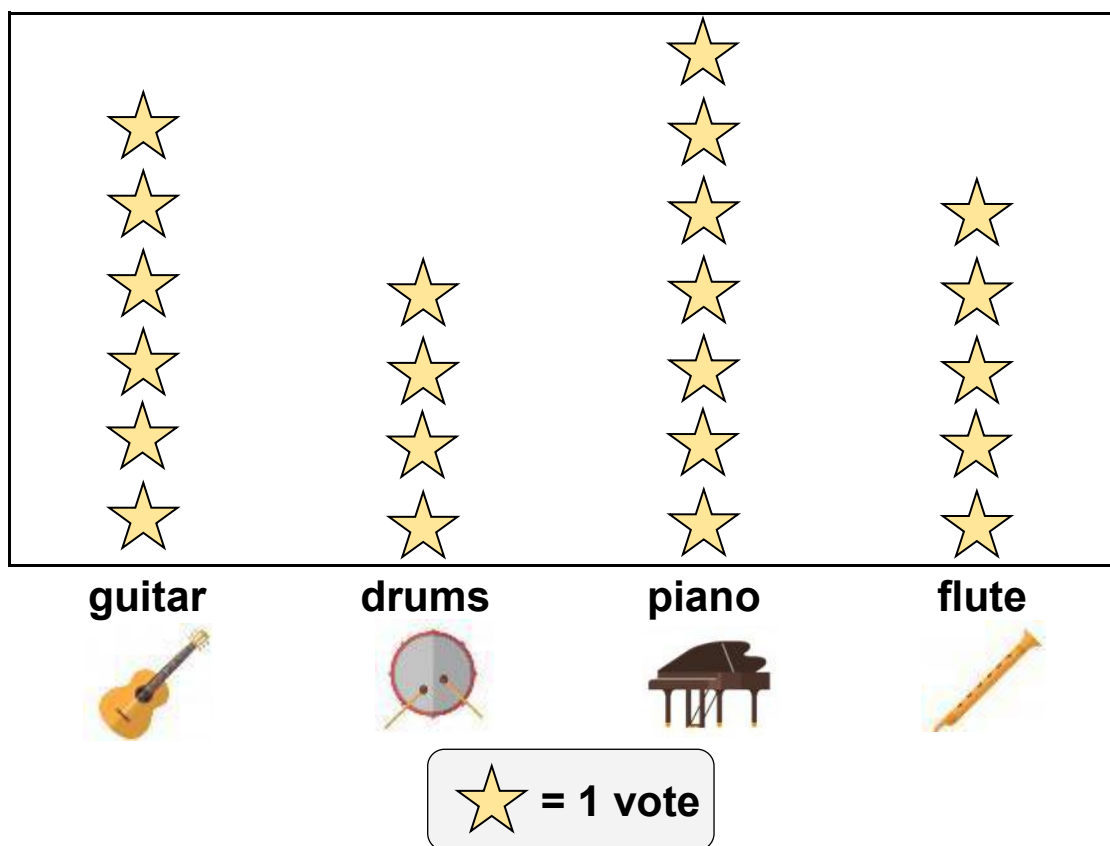
guitar   drums   piano   flute

⭐ = 1 vote

1. Which instrument got the most votes?   _____

2. Which instrument got five votes?   _____

3. How many more votes did the guitar have than the drums?   _____

4. How many votes did the piano and flute have together?   _____

Answers

Numbers of votes

| guitar | drums | piano | flute |

⭐ = 1 vote
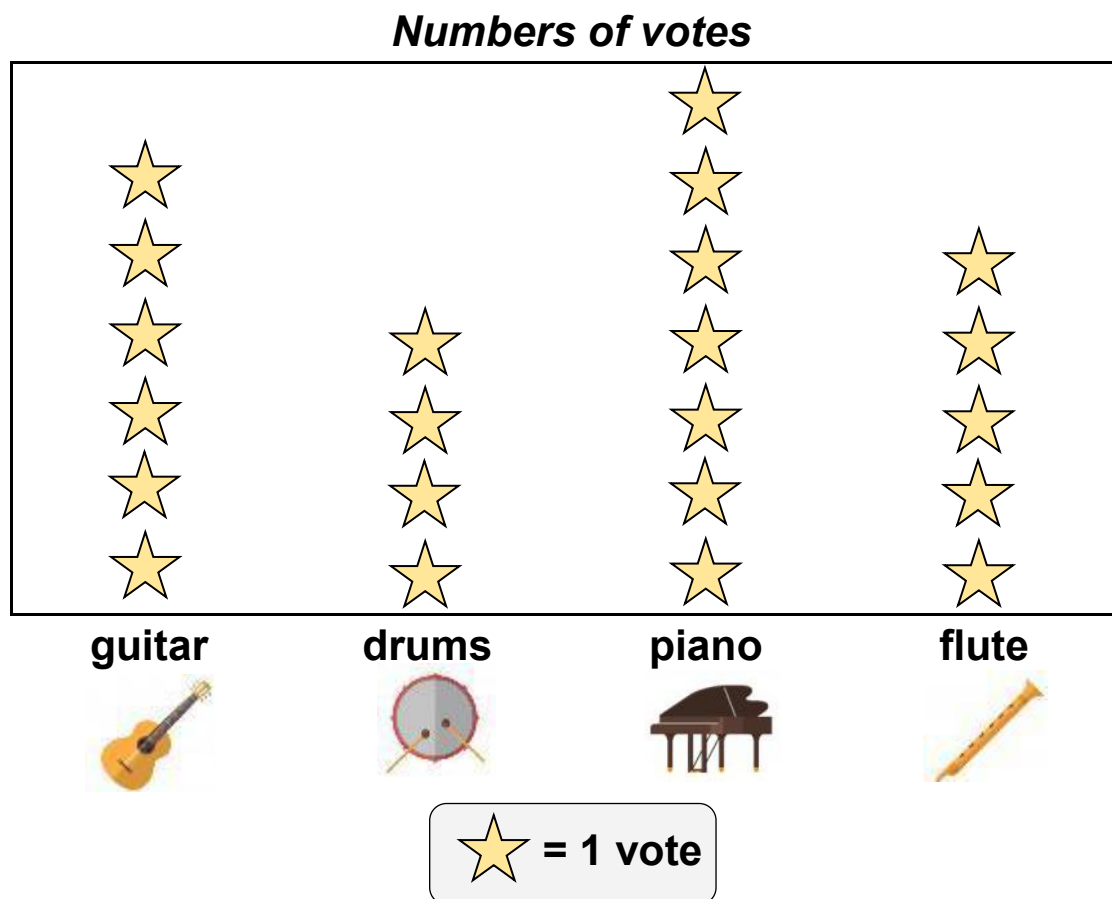
Which instrument got the most votes?	piano
Which instrument got five votes?	flute
How many more votes did the guitar have than the drums?	2
How many votes did the piano and flute have in all?	12

Christmas balls tally sheet

Data and Graphing Worksheet

Draw tally marks for each Christmas ball color.

Count the tally marks and write the number.

Color	Tally marks	Number
Blue		
Violet		
Red		
Yellow		

Total:

Color		Tally marks	Number
Blue	🔵	|||| |||	8
Violet	🟣	|||| ||||	10
Red	🔴	|||| |||| |||| ||||	20
Yellow	🟡	|||| |||| ||	12

Total: 50

Art materials tally sheet
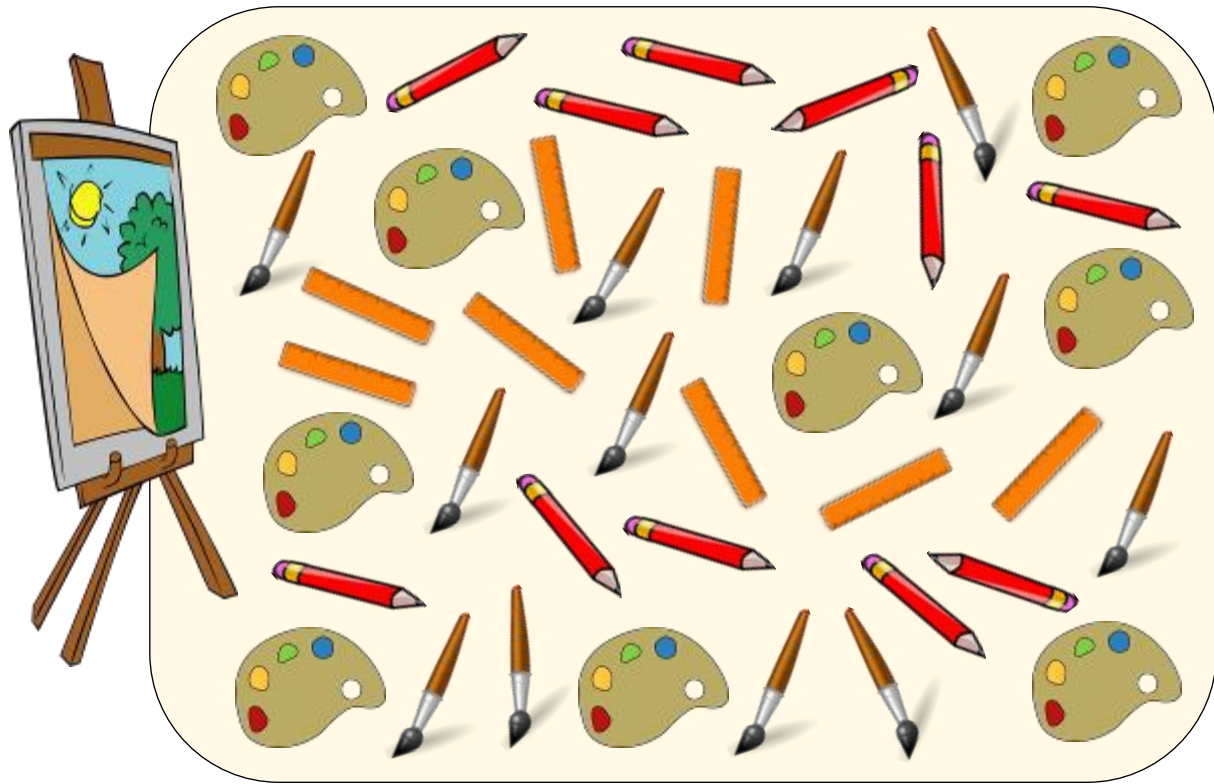
Data and Graphing Worksheet

Draw tally marks for each item.

Count the tally marks and write the number.
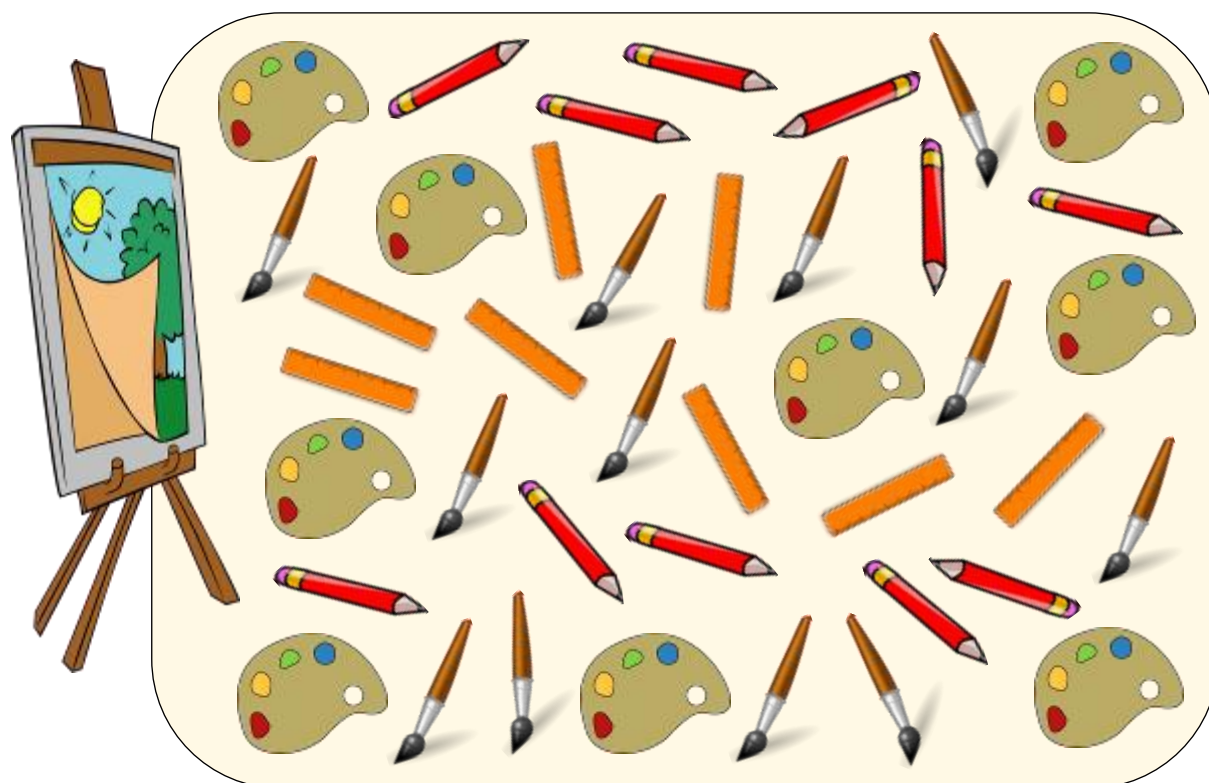
Material	Tally marks	Number
Paint		
Paint brush		
Pencil		
Ruler		

Total:

Answers

Material		Tally marks	Number
Paint	🎨	卌 ||||	9
Paint brush	🖌	卌 卌 ||	12
Pencil	✏	卌 卌 |	11
Ruler	▬	卌 |||	8

Total: 40

Sticker designs tally sheet

Data and Graphing Worksheet

Draw tally marks for each sticker design.

Count the tally marks and write the number.

Sticker design	Tally marks	Number
(cupcake)		
(pizza)		
(heart)		
(palm tree)		

Total [ ]

Answers

Sticker design	Tally marks	Number
🧁	⋕⋕	5
🍕	⋕⋕ ⋕⋕	10
💖	⋕⋕ ⦀	8
🌴	⋕⋕ ‖	7

Total: 30