

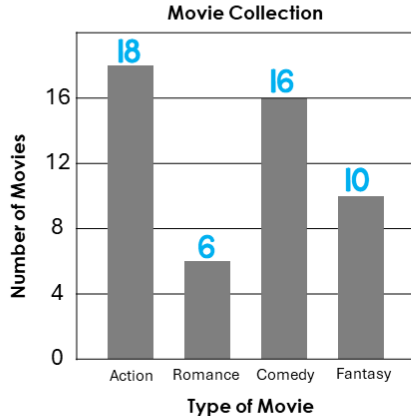
Data & Graphing

TEKS Notebook

3.MD.B.3
TEKS 3.8B

Questions About Bar Graphs

In this bar graph every line has a number, but some bars end in between lines. Label the top of each bar with the number it represents. Then answer the questions about the graph.



1. How many comedy and action movies combined are in the movie collection?

$$\begin{array}{r} 18 \\ +16 \\ \hline 34 \end{array}$$

There are 34 comedy and action movies.



2. How many more fantasy movies than romance movies are in the movie collection?

$$\begin{array}{r} 10 \\ -6 \\ \hline 4 \end{array}$$

There are 4 more fantasy than romance movies.

3. What is the total number of movies in the movie collection?

$$\begin{array}{r} 18 \\ 6 \\ 16 \\ +10 \\ \hline 50 \end{array}$$

There are 50 movies in the collection.



**3rd
GRADE**

Easy-to-Use Student Pages

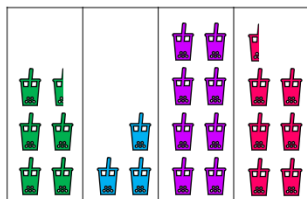
3.MD.B.3
TEKS 3.8A

Pictograph Keys

8

Complete the equations to find the number of each type of drink ordered.

Drinks Ordered



Each means 4 drinks.

What is equal to? 2

Number of whole pictures X How many each picture represents

+

Any half pictures to add? Add the value of a half picture

= Number of drinks ordered

Soda $5 \times 4 = 20$

$+ 2 = 22$

Lemonade $3 \times 4 = 12$

$\text{no} = 12$

Tea $8 \times 4 = 32$

$\text{no} = 32$

Iced Coffee $6 \times 4 = 24$

$+ 2 = 26$

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3.MD.B.3
TEKS 3.8A

Bar Graphs and Pictographs

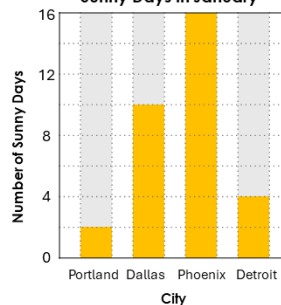
9

Use the data in the frequency table to create a bar graph and a pictograph.

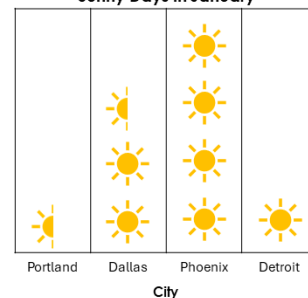
Sunny Days in January

City	Number of Sunny Days
Portland	2
Dallas	10
Phoenix	16
Detroit	4

Sunny Days in January



Sunny Days in January



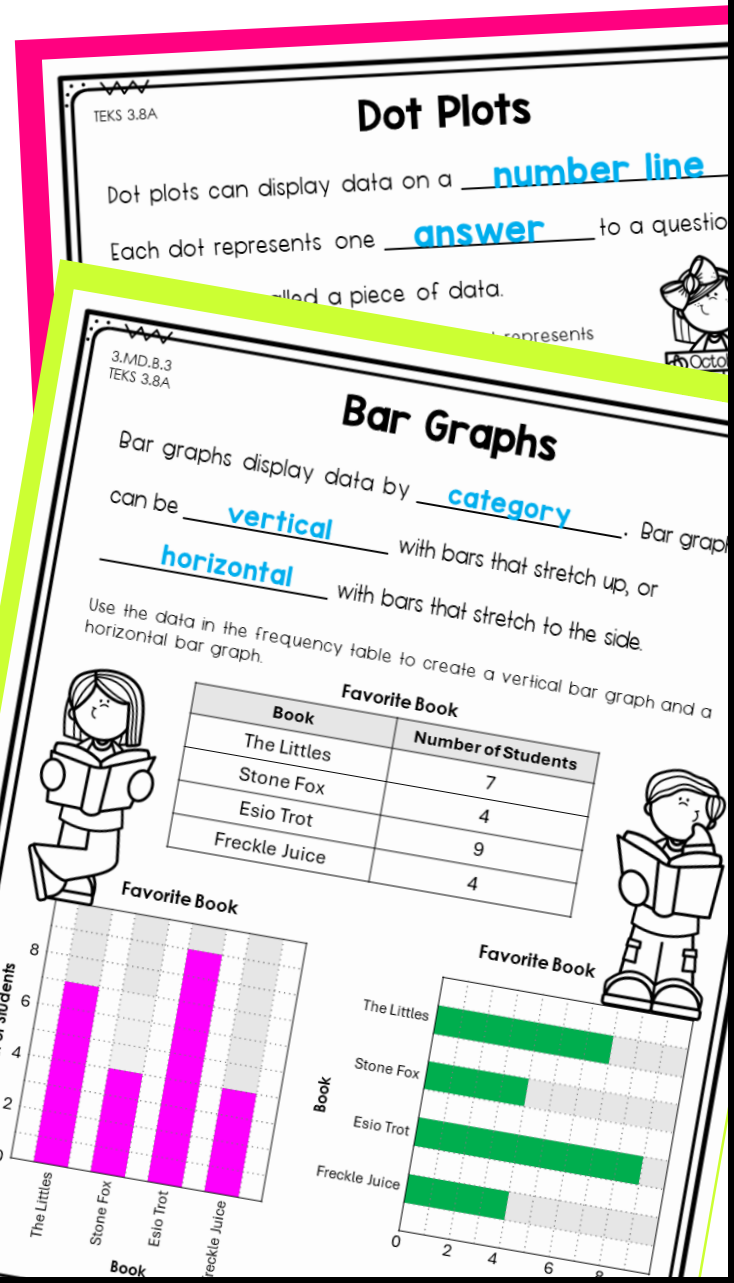
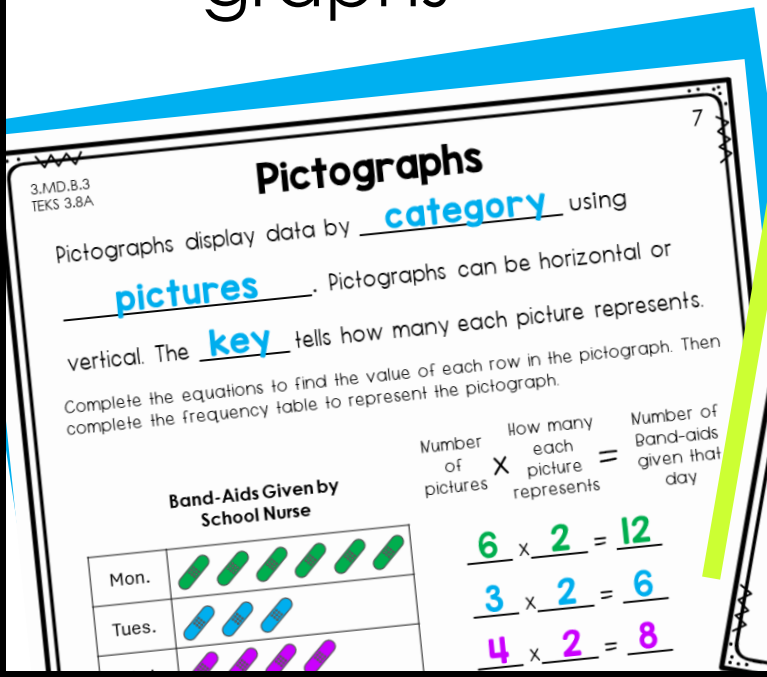
Each means 4 days.

How does the key in the pictograph relate to the numbers on the bar graph? The key shows each full sun is equal to 4 days. The numbers count by 4's on the bar graph.

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Teaches Every Graphing Topic

- Frequency Tables
- Bar Graphs
- Scaled Intervals
- Pictographs
- Dot Plots
- 1 and 2-step questions about graphs



Make Bar Graph Intervals Easy to Understand

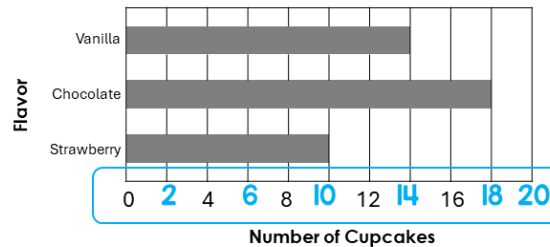
3.MD.B.3
TEKS 3.8A

Intervals and the Multiplication Chart

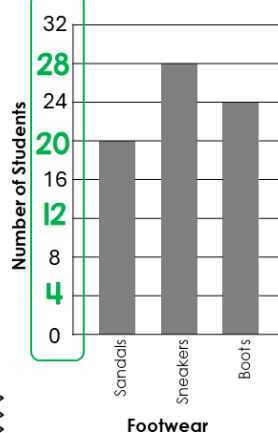
5

Fill in the missing numbers on each graph. Then highlight or circle the row or column on the multiplication chart that is related to the numbers that label the lines on the graphs.

Cupcakes



Footwear worn by Students



Multiplication Chart

10	10	20	30	40	50	60	70	80	90	100
9	9	18	27	36	45	54	63	72	81	90
8	8	16	24	32	40	48	56	64	72	80
7	7	14	21	28	35	42	49	56	63	70
6	6	12	18	24	30	36	42	48	54	60
5	5	10	15	20	25	30	35	40	45	50
4	4	8	12	16	20	24	28	32	36	40
3	3	6	9	12	15	18	21	24	27	30
2	2	4	6	8	10	12	14	16	18	20
1	1	2	3	4	5	6	7	8	9	10
x	1	2	3	4	5	6	7	8	9	10

Essential Vocabulary

Easy-to-Use Student Reference Tool

MARVELMath

ESSENTIAL DATA & GRAPHS VOCABULARY

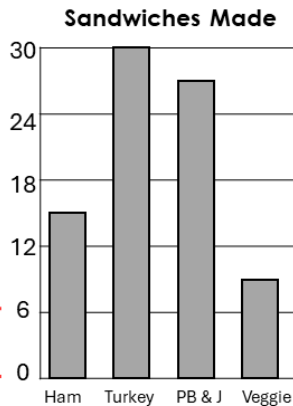
2

Term

Picture or Example

Definition

Bar Graph



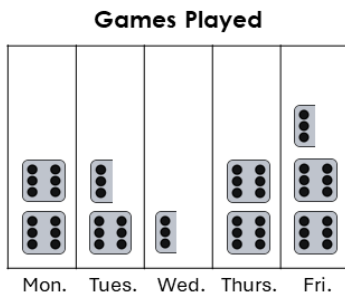
A graph that represents data by category

Interval

The difference between two consecutive numbers on a bar graph

$$6-0=6$$

Pictograph



A graph that represents data by category using pictures

Key

Each  means 2 games.

Tells how many each picture represents

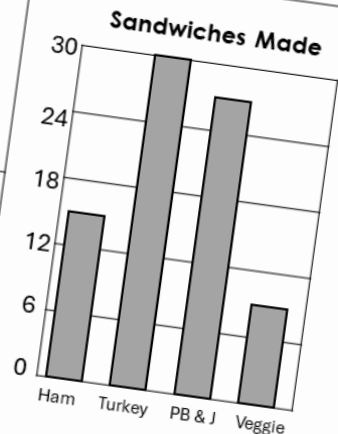
ESSENTIAL

DATA & GRAPHS

Term

Picture or Example

Bar Graph



Interval

Pictograph



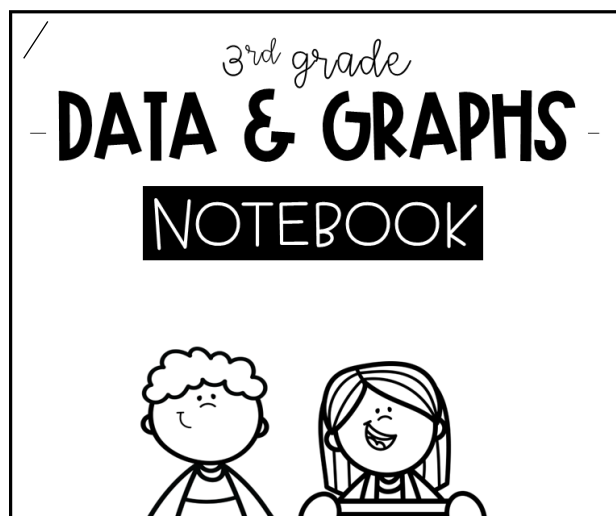
Key

Each  means 2 games.

Make the most of class time

No Cutting or Gluing Required

- Make stapled packets
- 3-hole punch to use in a binder



TEKS 3.8A

Dot Plots

Dot plots can display data on a number line.

Each dot represents one answer to a question, which is also called a piece of data.

Create a frequency table and dot plot that represents the number of days in the months of a non-leap year.

How many days are in each month?

31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31

To create the dot plot I will put a dot on the graph for every number. The number 31 is an answer 7 times, so there will be 7 dots above the number 31.

Number of Days in the Months of a Year (non-leap year)

Number of Days	28	29	30	31
Frequency	I		III	IIII

Number of Days

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Resource Includes



13 Student Pages



**Pages to introduce all the
Data & Graphs TEKS**



Detailed Teacher KEY



**Essential Vocabulary
Section**



Standards Aligned

DATA & GRAPHS NOTEBOOK

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The 3rd grade math TEKS include creating and answering 1-step and 2-step questions about bar graphs, pictographs and dot plots.

graphs, pictographs

This resource is included in these

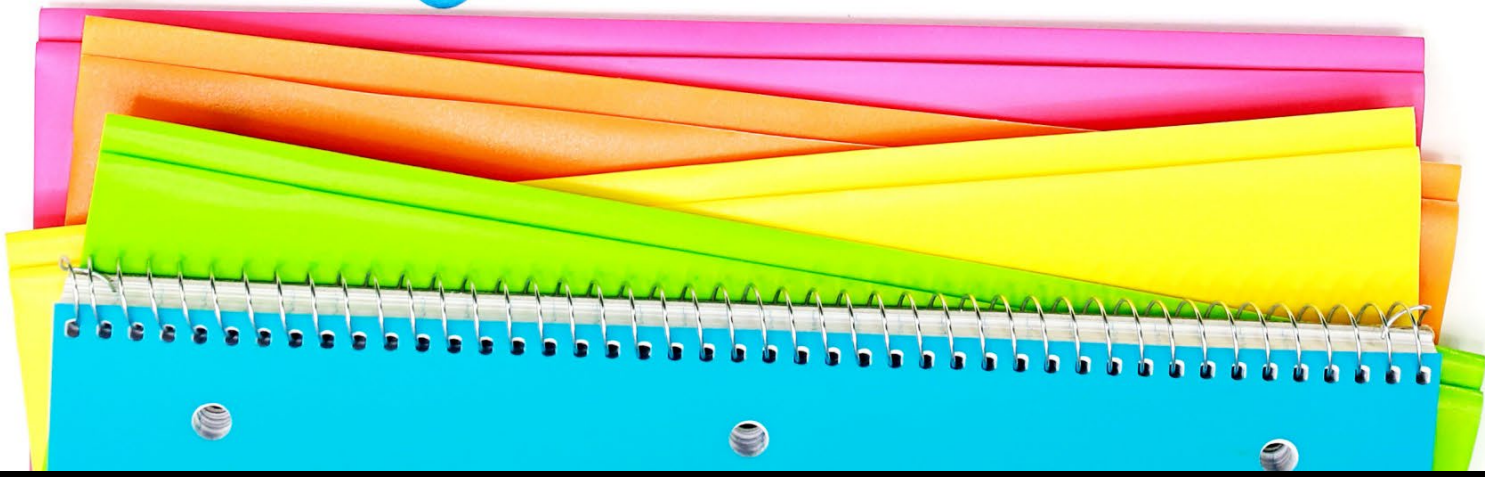
Time & Money Saving BUNDLES

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Notebook
Bundle

Click here

3rd Grade
Data & Graphing
Unit Bundle



About the Author

This resource was created by Melissa Johnson, who has 16 years of k-10 teaching experience and a masters degree in Mathematics Education. Her resources build conceptual understanding, make connections between math topics and engage students in the mathematics they are learning.

