

# BIG 10

## DATA & GRAPHS

Ten ways to reinforce  
data and graphs.



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# To the Teacher

- This product is meant to be a no frills, all action tool for cementing the concept of data and graphs in preparation for standardized testing.
- Each activity can be completed in a variety of ways to fit your classroom needs.
- It was created with the following standards in mind:
  - TEKS
    - represent data on a frequency table, dot plot, or stem-and-leaf plot marked with whole numbers and fractions 4.9(A)
  - Common Core
    - CCSS.MATH.CONTENT.4.MD.B.4 Make a line plot to display a data set of measurements in fractions of a unit ( $\frac{1}{2}$ ,  $\frac{1}{4}$ ,  $\frac{1}{8}$ ). Solve problems involving addition and subtraction of fractions by using information presented in line plots.
- What is referred to as dot plots in the TEKS is known as line plots in Common Core

# Prep Recommendations

- Each activity is created in black and white to conserve color ink
  - Using colored paper to differentiate different parts in each activity will help students to stay organized.
- If you plan to use the activities for small group or partner activities over time, I would recommend laminating them for durability.

# Content Vocabulary

data

frequency

dot plot

line plot

stem and leaf

whole number

fraction

graph

title

label

# Data in a Frequency Table

Use the data to create  
frequency tables.

# Teacher Suggestions

## Data in a Frequency Table

- In this activity students are asked to use raw data to create frequency tables.
- This activity can be used in a variety of ways:
  - Small group with teacher guidance
  - A partner activity to practice
  - Independent to assess

### Materials

- Included:
- Data cards
  - Recording sheet
  - Answer Key
- Not Included:
- pencil

1

Shoe Size			
6	8	9	7
10	7	8	9
7	6	9	6
7	7	8	8

2

Ice Cream Flavor			
V	C	M	C
M	V	C	C
M	V	V	V
M	C	C	M

3

Lunch Price			
5	6	4	5
5	5	4	3
5	6	5	4
5	5	5	3

4

Shirt Size			
s	m	l	s
s	m	l	m
s	m	l	m
s	l	s	s

5

Favorite Color			
b	r	y	g
b	b	b	y
g	r	b	y
y	g	r	r

6

Speed Limits			
60	55	70	70
70	55	35	55
35	45	60	35
35	70	70	55

Name \_\_\_\_\_ # \_\_\_\_\_ Date \_\_\_\_\_

# Data in a Frequency Table Response Sheet

Use the data to create frequency tables.

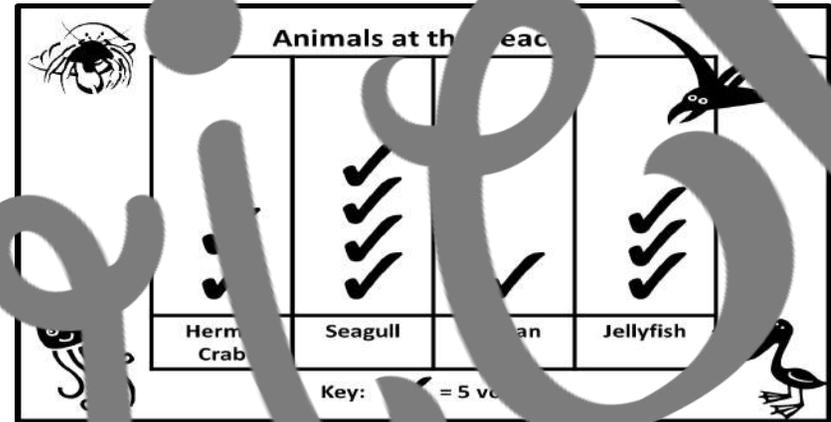
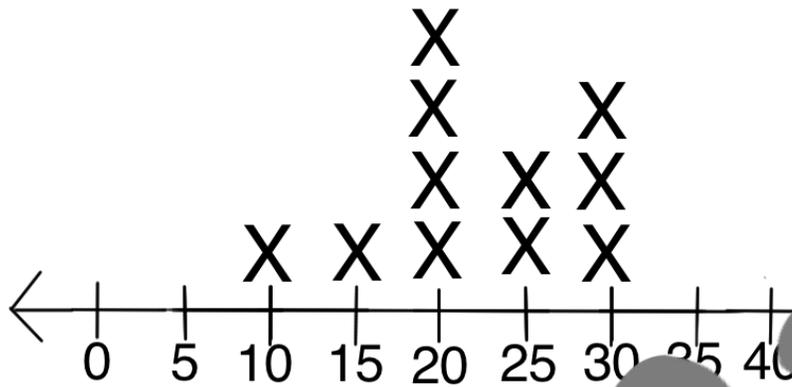
1	2	3
4	5	6

Name \_\_\_\_\_

# \_\_\_\_\_

Date \_\_\_\_\_

# Test Bridge Questions



1. How many students read for at least 20 minutes?

- a. 4
- b. 6
- c. 9
- d. 12

2. How many less students read 25 minutes than 10 minutes?

- a. 3
- b. 2
- c. 1
- d. 5

3. How many votes did the seagull receive?

- a. 4
- b. 16
- c. 20
- d. 18

4. Which two animals combined received the same number of votes as the jellyfish?

- a. hermit crab and seagull
- b. seagull and pelican
- c. seagull and jellyfish
- d. pelican and hermit crab

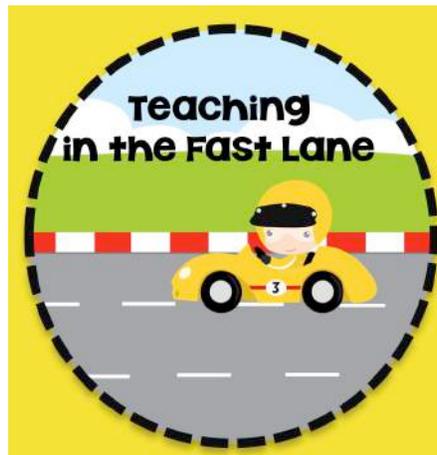
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