

4TH GRADE

# MEASUREMENT AND DATA *bundle*

## MATH TASK CARDS

4.MD.C.5

### ANGLES AS GEOMETRIC SHAPES

ANSWER SHEET

ANSWERS: 16, 17, 18, 19, 20, 21, 24, 25

Challenge: A Ferris wheel completes one full rotation. A passenger gets on at the bottom. How many rotations do they have to make to get back to the bottom?

Magi CORE

4.MD.C.6

### MEASURE ANGLES TO THE NEAREST DEGREE WITH PROTRACTORS

ANSWER SHEET

Challenge: Measure and sketch angles within a 90° angle using the following:

- Angle ABC is 40°
- Angle DEF is 60°
- Angle GHI is 30°

What is the final angle?

4.MD.A.2

### SOLVING WORD PROBLEMS TO CONVERT MEASUREMENTS

ANSWER SHEET

Measurement Word Problems

A movie starts at 6:20 PM and ends at 8:05 PM. How long is the movie?

1 hour 30 min    1 hour 15 min  
1 hour 25 min    1 hour 45 min

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4.MD.B.4

### CREATE A LINE PLOT WITH FRACTIONS OF A UNIT

ANSWER SHEET

Line Plots

A line plot is made based on the following data:

- 1 plants are 1/2 inches tall
- 2 plants are 1/4 inches tall
- 3 plants are 3/4 inches tall
- 1 plant is 1 inch tall

What is the difference between the tallest and shortest plants?

4.MD.A.3

### FIND AREA/PERIMETER OF A RECTANGLE

ANSWER SHEET

Challenge: Sketch adjacent angles within a 90° angle using the following:

- Angle ABC is 40°
- Angle DEF is 60°
- Angle GHI is 30°

What is the final angle?

4.MD.C.7

### ADDITIVE ANGLE MEASURES

ANSWER SHEET

Challenge: Sketch adjacent angles within a 90° angle using the following:

- Angle ABC is 40°
- Angle DEF is 60°
- Angle GHI is 30°

What is the final angle?

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4.MD.A.1

### RECOGNIZE & CONVERT COMMON UNITS OF MEASUREMENT

ANSWER SHEET

Challenge: If a bike ride takes 90 minutes, how many hours and minutes is that?

1 hour 10 min    1 hour 30 min  
1 hour 20 min    1 hour 15 min

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PRINTABLE AND DIGITAL

- 30 PRINT-AND-GO TASK CARDS PER UNIT
- 7 UNITS
- READY TO USE FOR CENTERS

ANSWER SHEET			
Name: _____		Date: _____	
Card #	Answer	Card #	Answer
1.		16.	
2.		17.	
3.		18.	
4.		19.	
5.		20.	
6.		21.	
7.		22.	
8.		23.	
9.		24.	
10.		25.	
11.		26.	
12.		27.	
13.		28.	
14.		29.	
		30.	



**27 Additive Angle Measures**

A playground slide forms a total angle of  $150^\circ$ . If the top part of the slide forms a  $95^\circ$  angle with the ground, what is the angle formed by the bottom part of the slide?

a.  $45^\circ$                       c.  $55^\circ$   
 b.  $65^\circ$                       d.  $35^\circ$

**30 Additive Angle Measures**

What is the measure of the CBD angle?

a.  $132^\circ$                       c.  $52^\circ$   
 b.  $90^\circ$                       d.  $120^\circ$

**7 Additive Angle Measures**

Angle FGJ measures  $108^\circ$ . Angle FGH measures  $89^\circ$ . What is the measure of angle HGJ?

a.  $22^\circ$                       c.  $17^\circ$   
 b.  $19^\circ$                       d.  $26^\circ$

**Additive Angle Measures**

**Additive Angle Measures CHALLENGE**

Mia is repairing a wooden fence that has broken at an angle. The total angle where the fence is bent is  $213^\circ$ . She notices that the broken fence is divided into 3 parts:

- The first section forms an angle of  $87^\circ$ .
- The second section forms an angle of  $65^\circ$ .
- The third section is unknown.

Write an equation to represent the problem, then solve for the missing angle.

**31 Additive Angle Measures**

What is the measure of angle M?

a.  $132^\circ$                       c.  $147^\circ$   
 b.  $120^\circ$                       d.  $110^\circ$



SELF CORRECTING, INCLUDES REPORTING CERTIFICATE

13 Line Plots

A line plot is made based on the following data:

- 4 trays are  $3\frac{1}{4}$  inches long
- 8 trays are 3 inches long
- 5 trays are  $3\frac{3}{4}$  inches long.

How many dots should be above the number  $3\frac{3}{4}$ ?

- a. 3 dots                      c. 4 dots  
b. 8 dots                      d. 5 dots

14 Line Plots

What is

- a.  
b.

16 Line Plots

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differenc

- a.  
b.

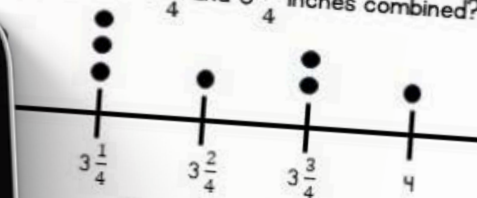
20 Line Plots

A group of students measured the wingspans of butterflies they collected and recorded the data on the line plot shown. What is the difference between the longest and shortest wingspan?



22 Line Plots

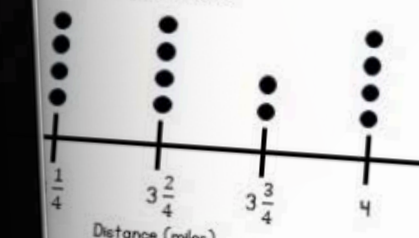
Teia and Lily are making bracelets and recording the length of each bracelet on the line plot shown. What is the total length of bracelets that are  $3\frac{2}{4}$  and  $3\frac{3}{4}$  inches combined?



- a.  $10\frac{1}{4}$  inches  
b.  $10\frac{3}{4}$  inches  
c.  $10\frac{1}{4}$  inches  
d. 10 inches

15

miles he ran on the line plot shown. What is the difference between his longest distance and shortest distance ran?



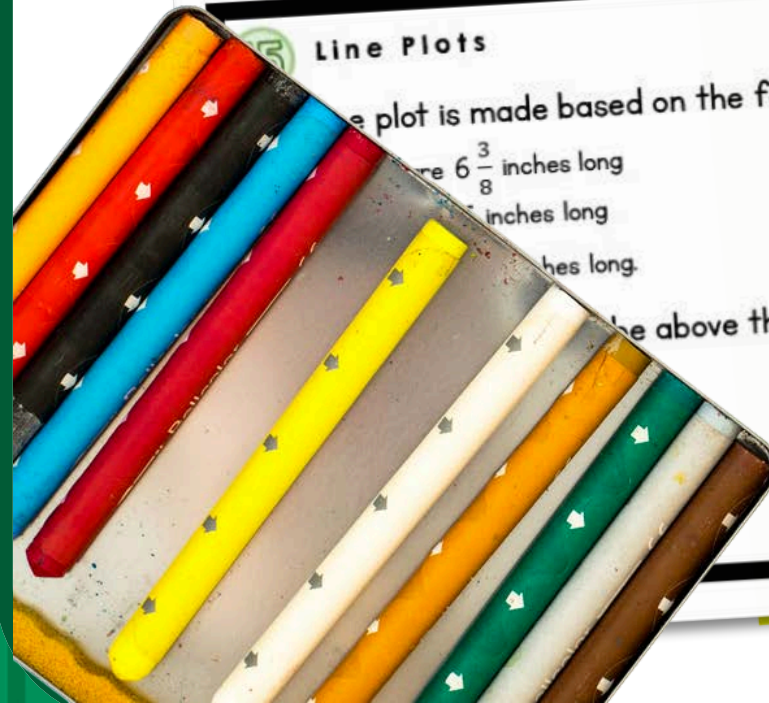
- a. 1 1/4 miles  
b. 1 3/4 miles  
c. 2 miles  
d. 3 miles

INCORRECT

The correct answer is  $5/6 > 3/4$ , because  $5/6 = 10/12$  and  $3/4 = 9/12$ .

CONTINUE

$\frac{8}{12}$  and  $\frac{3}{4} = \frac{9}{12}$ , they simplify to the same fraction.



# STANDARDS ALIGNED

## 21 Measurement Word Problems

Sarah bikes 2.5 miles in the morning and 4.75 miles in the afternoon. How far does she bike in total?

- a. 6.5 miles
- b. 7 miles
- c. 7.25 miles
- d. 6.75 miles

## Measurement Word Problems CHALLENGE

A construction worker is using three different metal rods to build a frame.

- Rod A is 2.75 kilometers long
- Rod B is 4 kilometers long
- Rod C is 8.25 kilometers long.

What is the total combined length of the three rods in kilometers?



## 16 Measurement Word Problems

A bicycle race lasts 3 hours and 20 minutes. How many total minutes is that?

- a. 320 minutes
- b. 180 minutes
- c. 200 minutes
- d. 220 minutes

## 7 Measure and Sketch

Use a protractor to measure the angle.  
What is the angle measure?



- a.  $45^\circ$
- b.  $100^\circ$
- c.
- d.

## 14 Area and Perimeter

A rectangle has an area of  $64 \text{ cm}^2$  and a width of 8 cm. What is the length?

- a. 16 cm
- b. 20 cm

