

North Penn School District
Elementary Math Parent Letter

Grade 1

Unit 5 -- Chapter 9: Measurement







Examples from each lesson

Lesson 9.1

Order Length

Measure lengths indirectly and by iterating length units.

You can put objects in order by length.

These pencils are in order from shortest to longest .	These pencils are in order from longest to shortest .
shortest 	longest 
	
longest 	shortest 

More information on this strategy is available on Animated Math Model #39.




Lesson 9.2

Indirect Measurement

Measure lengths indirectly and by iterating length units.

Clue 1: A marker is shorter than a pencil.
Clue 2: The pencil is shorter than a ribbon.

Is the marker shorter or longer than the ribbon?

marker	
pencil	
ribbon	




So, the marker is shorter than the ribbon.


Draw Clue 1.
Draw Clue 2.
Then compare the marker and the ribbon.

Lesson 9.3

Use Nonstandard Units to Measure Length

Measure lengths indirectly and by iterating length units.

You can use  to measure length.
Line up the .
Count how many.
about 5 




More information on this strategy is available on Animated Math Model #40.

Lesson 9.4


Make a Nonstandard Measuring Tool

Measure lengths indirectly and by iterating length units.

About how long is the ribbon?
Count to measure.



Count on by ones.




about _____ 







More information on this strategy is available on Animated Math Model #40.

Lesson 9.5

Problem Solving • Measure and Compare

Measure lengths indirectly and by iterating length units.


The gray ribbon is 3  long. The white ribbon is 4  long. The black ribbon is 1  longer than the white ribbon. Draw and color the length of the ribbons in order from **shortest** to **longest**.

What do I need to find? order the ribbons from _____ <u>shortest</u> to <u>longest</u>	What information do I need to use? _____ <u>Measure</u> the ribbons using paper clips.
Show how to solve the problem.	
shortest 	about <u>3</u> 
	about <u>4</u> 
longest 	about <u>5</u> 

Lesson 9.6

Time to the Hour

Tell and write time.

Look at the hour hand. The hour hand points to the <u>8</u> . It is <u>8:00</u> .	
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More information on this strategy is available on Animated Math Model #41.

Lesson 9.7

Time to the Half Hour

Tell and write time.

The hour hand points halfway between

the 9 and the 10.

It is half past 9:00.



More information on this strategy is available on Animated Math Model #42.

Lesson 9.8

Tell Time to the Hour and Half Hour

Tell and write time.

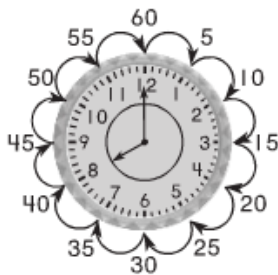
The short hand is the **hour hand**.

It shows the hour.

The long hand is the **minute hand**.

It shows the minutes after the hour.

There are 60 minutes
in one hour.



There are 30 minutes
in a half hour.





More information on this strategy is available on Animated Math Models #41, 42.

Lesson 9.9

Practice Time to the Hour and Half Hour

Tell and write time.

<p>The hour hand points to 8. The minute hand points to 12.</p>  <p><u>8:00</u></p>	<p>The hour hand points between 8 and 9. The minute hand points to 6.</p>  <p><u>8:30</u></p>
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More information on this strategy is available on Animated Math Models #41, 42.

Vocabulary

Half hour – a unit of time equal to 30 minutes

Hour – a unit of time equal to 60 minutes

Hour hand – the short hand on an analog clock

Longest – a distance that is greater than others

Minute – a unit used to measure short amounts of time; in one minute, the minute hand moves from one mark to the next

Minute hand – the long hand on an analog clock

Shortest – a distance that is less than others