



Summer Package
Grade 4 going to Grade 5
(Week 1)
2018

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Name _____

Date _____

1. The chart to the right shows the distance fourth graders in Ms. Smith's class were able to run before stopping for a rest. Create a line plot to display the data in the table.

Student	Distance (in miles)
Joe	$2\frac{1}{2}$
Arianna	$1\frac{3}{4}$
Bobbi	$2\frac{1}{8}$
Morgan	$1\frac{5}{8}$
Jack	$2\frac{5}{8}$
Saisha	$2\frac{1}{4}$
Tyler	$2\frac{2}{4}$
Jenny	$\frac{5}{8}$
Anson	$2\frac{2}{8}$
Chandra	$2\frac{4}{8}$

2. Solve each problem.
- Who ran a mile farther than Jenny?
 - Who ran a mile less than Jack?
 - Two students ran exactly $2\frac{1}{4}$ miles. Identify the students. How many quarter miles did each student run?
 - What is the difference, in miles, between the longest and shortest distance run?

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- e. Compare the distances run by Arianna and Morgan using $>$, $<$, or $=$.
- f. Ms. Smith ran twice as far as Jenny. How far did Ms. Smith run? Write her distance as a mixed number.

Mr. O'Neil asked his students to record the length of time they read over the weekend. The times are listed in the table.

3. At the bottom of the page, make a line plot of the data.

Student	Length of time (in hours)
Robin	$\frac{1}{2}$
Bill	1
Katrina	$\frac{3}{4}$
Kelly	$1\frac{3}{4}$
Mary	$1\frac{1}{2}$
Gail	$2\frac{1}{4}$
Scott	$1\frac{3}{4}$
Ben	$2\frac{2}{4}$

4. One of the students read $\frac{3}{4}$ hour on Friday, $\frac{3}{4}$ hour on Saturday, and $\frac{3}{4}$ hour on Sunday. How many hours did that student read over the weekend? Name that student.
5. Compare the values of each 7 in the number 771,548. Use a picture, numbers, or words to explain.

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6. Compare using $>$, $<$, or $=$. Write your answer inside the circle.

a. 234 thousands + 7 ten thousands 241,000

b. 4 hundred thousands – 2 thousands 200,000

c. 1 million 4 hundred thousands + 6 hundred thousands

d. 709 thousands – 1 hundred thousand 708 thousands

7. Norfolk, VA, has a population of 242,628 people. Baltimore, MD, has 376,865 more people than Norfolk. Charleston, SC, has 496,804 less people than Baltimore.

a. What is the total population of all three cities? Draw a tape diagram to model the word problem. Then, solve the problem.

b. Round to the nearest hundred thousand to check the reasonableness of your answer for the population of Charleston, SC.

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c. Record each city's population in numbers, in words, and in expanded form.

d. Compare the population of Norfolk and Charleston using $>$, $<$, or $=$.

e. Eddie lives in Fredericksburg, VA, which has a population of 24,286. He says that Norfolk's population is about 10 times as large as Fredericksburg's population. Explain Eddie's thinking.

8. Complete the conversion charts

Length	
3 km	_____ m
9 km	_____ m
6 km 435 m	_____ m
12 km 12 m	_____ m

Mass	
3 kg	_____ g
20 kg 300 g	_____ g
1 kg 74 g	_____ g
403 kg 4 g	_____ g

Capacity	
4 L	_____ mL
48 L 808 mL	_____ mL
2 L 20 mL	_____ mL
639 L 6 mL	_____ mL

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9. A student completed the problem below. Check his work. Explain how you know if each solution is correct or incorrect.

Convert the following measurements:

a. 24 km = 24,000 m

b. 16 L = 16,000 mL

c. 38 kg = 3,800 g

10. Find the sum or difference

a. 493 km 43 m + 17 km 57 m

b. 25 kg 32 g - 23 kg 83 g

c. 100 L 99 mL + 2,999 mL

11. Billy is training for a half marathon. For the problems below, use tape diagrams, numbers, and words to explain each answer.

- a. Each day, Billy runs on the treadmill for 5 kilometers and runs on the outdoor track for 6,000 meters. In all, how many meters does Billy run each day?

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- b. Since Billy has started training, he has also been drinking more water. On Saturday, he drank 2 liters 755 milliliters of water. On Sunday, he drank some more. If Billy drank a total of 4 liters 255 milliliters of water on Saturday and Sunday, how many milliliters of water did Billy drink on Sunday?
- c. Since he began exercising so much for his half marathon, Billy has been losing weight. In his first week of training, he lost 2 kilograms 530 grams. In the following two weeks of training, he lost 1 kilogram 855 grams each week. Billy now weighs 61 kilograms 760 grams. What was Billy's weight, in grams, before he started training? Explain your thinking.