

**Grade 6 Summer Review Packet
2019 -2020**



WEEK - 2

NAME: _____

DUE: THE FIRST DAY OF SCHOOL

The problems in this packet are designed to help you review topics from previous mathematics courses that are essential to your success in Integrated Math I. **You are expected to bring this completed packet to class on the first day of school.** In addition, this packet will count as part of your first quarter grade. **Upon returning, you will be ASSESSED on the content of this packet.** All contents outlined in the packet are Grade 6 objectives. Neatly **SHOW YOUR WORK** on a separate sheet of paper.

Q1: There are 20 students in our class who prefer chocolate ice cream. There are 6 students in our class who prefer vanilla ice cream.

Select all of the ratios that represent the number of students who prefer chocolate ice cream to the number of students who prefer vanilla ice cream.

A 6 to 20

B 6 : 20

C 20 to 6

D 20 : 6

E 20 to 26

F 20 : 26

Q2: Joy is making a fruit salad. For every 2 cups of blueberries that Joy uses in the fruit salad, she uses 3 cups of strawberries. If Joy wants to use 6 cups of blueberries in the fruit salad, how many cups of strawberries will she need to use? Use paper to draw a tape diagram to show your work.

Joy will need to use cups of strawberries.

Q3: Nash is training for a marathon and decides to train for 26 miles every week. In the first week, the ratio of the number of miles he ran to the number of miles he walked was 3 : 10. Use paper to draw tape diagrams to represent this ratio. How many miles did Nash run in week 1?

Nash ran miles in week 1.

In the fifth week, the ratio of the number of miles he ran to the number of miles he walked improved to 8 : 5. Use Scratchpad to draw new tape diagrams to represent this ratio. How many miles did Nash run in week 5?

Nash ran miles in week 5.

How many miles of running did he improve by from week 1 to week 5?

He improved by miles.

Q4: A 10-ounce package of cashews costs \$8.11, and a 16-ounce package of cashews costs \$12.

a. What is the cost per ounce for the 10-ounce package of cashews?

b. What is the cost per ounce for the 16-ounce package of cashews?

c. Which package is the better buy?

a. %240.06
 %240.75
 %240.81

b. %240.06
 %240.75
 %240.81

c. 10-ounce package of cashews
 16-ounce package of cashews
 neither

Q5: The ratio table shows the amounts of water and drink mix for several volumes of a children's drink. Fill in the missing volumes in the table to create equivalent ratios.

Drink Mix (in scoops)	Water (in quarts)
4	2
8	<input type="text"/>
<input type="text"/>	6
20	<input type="text"/>

Q6: On Friday, there were 8 snowboarders for every 3 skiers at a local ski resort. On Saturday, the ratio of the number of snowboarders to the number of skiers was 4 : 7. There were 168 snowboarders at the ski resort on Friday. There were the same number of people at the ski resort on Saturday as there were on Friday. How many more skiers were there than snowboarders at the ski resort on Saturday?

There were more skiers than snowboarders at the ski resort on Saturday.

Q7: Fill in the missing value to form a ratio equivalent to 3 : 8.

3 : 8 12 :

Q8: Jordan and Ellen recycle cans. Jordan recycles 7 cans for every 12 cans Ellen recycles. Last week, Jordan recycled 42 cans.

What number, c , can be multiplied by 12 to determine the number of cans Ellen recycled last week? How many total cans did Jordan and Ellen recycle last week?

$c =$

Jordan and Ellen recycled cans last week.

Q9: A pair of shoes is on sale for 15% off. With this discount, customers will save \$9 if they buy the shoes.

Part A

In this situation, what is the PART, WHOLE, and PERCENT?

15% is the , \$9 is the , and the original price is the .

Part B

What was the original price of the shoes?

\$

- a. PART
 PERCENT
 WHOLE
- b. PART
 PERCENT
 WHOLE
- c. PART
 PERCENT
 WHOLE

Q10: Dante slices potatoes at a steady pace to make fries. By the time he finishes, he has sliced 102 potatoes in 12 minutes. What is Dante's unit rate? What is the rate unit? Select your answers from the drop-down lists.

Dante's unit rate is . The rate unit is .

- a. 8.5
 10
 90
 114
- b. potatoes per minute
 minutes per potato

Q11: In Mr. Siegel's class, 15% of his students are in the Scrapbooking Club and 45% are in the Cooking Club. His remaining students are in the Board Game Club.

Drag numbers to the table to express the percent of students in each club as a fraction and a decimal.

DRAG DROP VALUES

0.5

0.6

15

50

40

0.15

4.5

60

0.4

45

1.5

0.04

0.45

Club	Fraction	Decimal
Scrapbooking Club	$\frac{\square}{100}$	\square
Cooking Club	$\frac{\square}{100}$	\square
Board Game Club	$\frac{\square}{100}$	\square

Q12: Jake's mom is making peanut butter cookies with chocolate chips. In her first batch, she used the ratio of 2 : 2 for the number of cups of chocolate chips to the number of cups of peanut butter chips. In her second batch, she used a ratio of 3 : 1 for the number of cups of chocolate chips to the number of cups of peanut butter chips and made the same number of cookies as the first batch. Jake made the following tape diagrams for his mom to reference. If her first batch used 4 cups of peanut butter chips, how many cups of chocolate chips did Jake's mom use for the second batch?

First Batch

Cups of Chocolate Chips

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Second Batch

Cups of Chocolate Chips

--	--	--

Cups of Peanut Butter Chips

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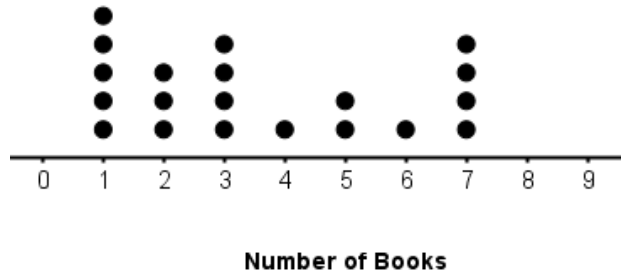
Cups of Peanut Butter Chips

--

Jake's mom used cups of chocolate chips for the second batch.

Q13: A sixth-grade class collected data on the number of books read by each student during a one-month period. The data collected are shown in the dot plot, where each dot represents a different student's response. Match each question about the data to the correct response.

Number of Books Read in One Month



How many students are in the class?



What number of books was read by the most students?



What is the greatest number of books read?



How many students read more than 3 books?



How many students read fewer than 4 books?



How many students read exactly 1 book?



ANSWER CHOICES

 12 19 18 6 7 14 17 9 1 11 20 5 16 8 13 4

15

10

3

2

Q14: Jamal collected data to answer the following question, *How many pencils does each student in my class have in his or her desk?*

The following is a frequency table of the data he collected.

a. Complete the frequency table.

Number of Pencils	Tally	Frequency
1		<input type="text"/>
2		<input type="text"/>
3		<input type="text"/>
4		<input type="text"/>
5	 	<input type="text"/>
6		<input type="text"/>
7		<input type="text"/>
8		<input type="text"/>
9		<input type="text"/>
10		<input type="text"/>

b. What number of pencils describes the center of the data?

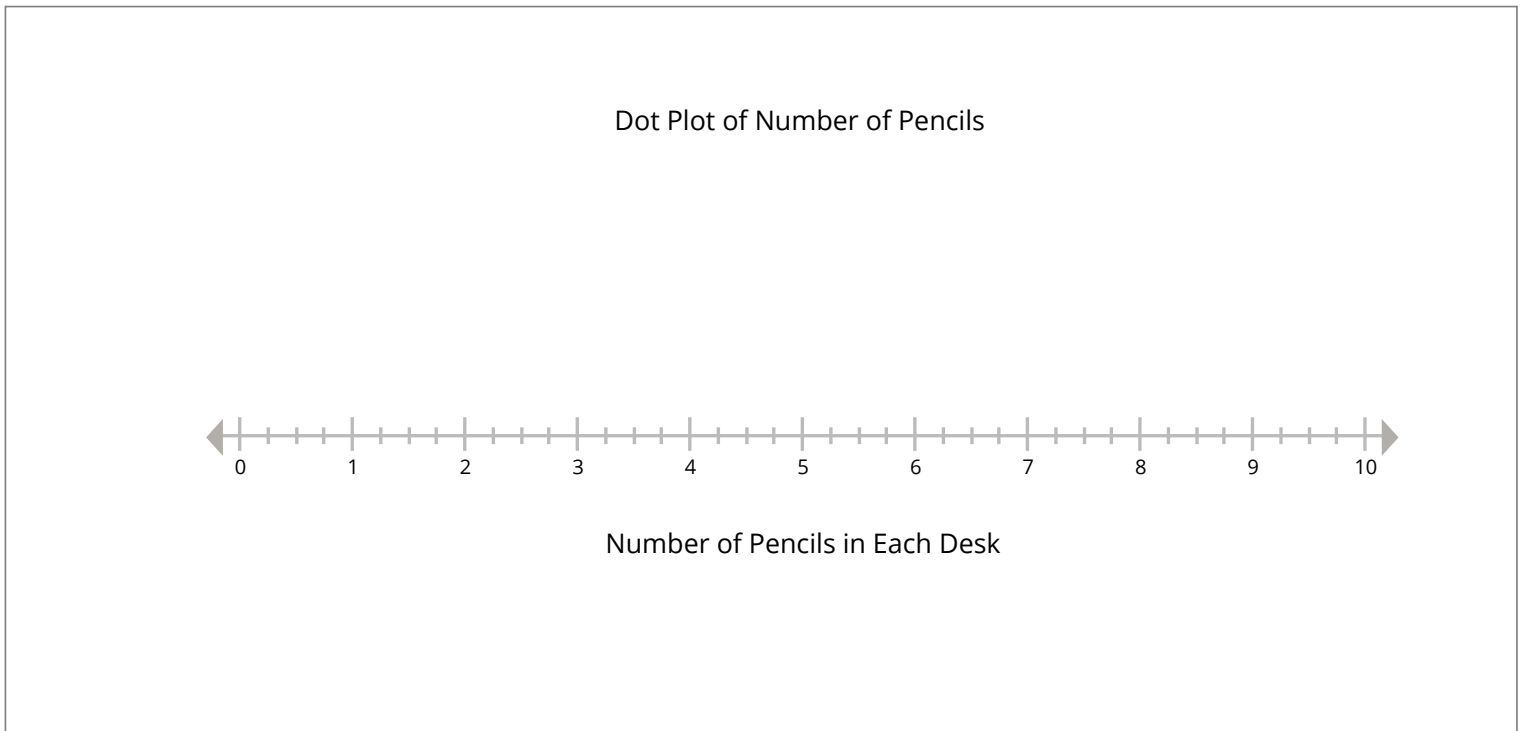
The center of the data is around .

Q15: Jamal collected data to answer the following question, *How many pencils does each student in my class have in his or her desk?*

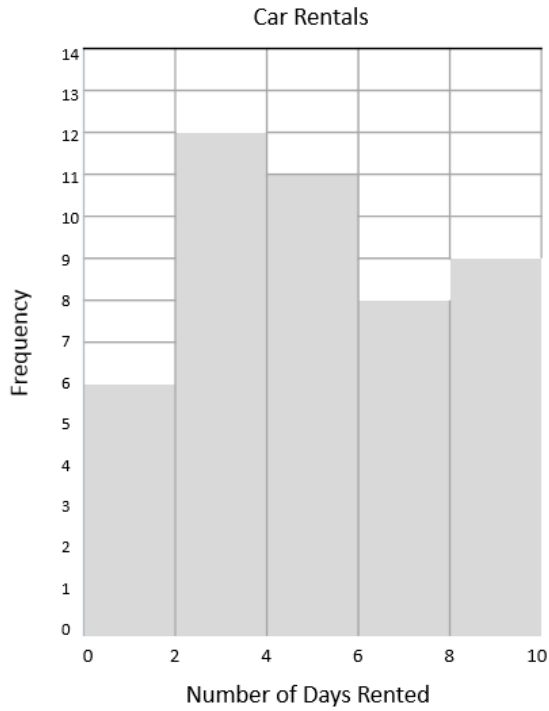
The following is a table of the data he collected.

Number of Pencils	Tally
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Create a dot plot of the data collected.



Q16: The histogram shown represents the number of days that customers rented a car.



Drag the interval that corresponds to each statement about the histogram.

The number of days that most people rented a car.



The number of days that the fewest people rented a car.



The number of days that describes the center of the data.



ANSWER CHOICES

4 - < 6

6 - < 8

0 - < 2

8 - < 10

2 - < 4

Q17: Another word for mean is average.

- A** True
- B** False
-

Q18: Find the mean, median, mode, and range for the data set of medals earned between the years of 1972 to 2000. Enter the answers in the boxes or use the drop down menu to answer the questions.

USA Silver Medals Summer Olympic Games	
Year	Medals
2000	24
1996	32
1992	34
1988	31
1984	61
1980	0
1976	35
1972	31

Mean:

Median:

Mode:

Range:

- a. 31.5
- 31
- 32.5

- b. 31
- 37
- 61
-