

# Integrated Math II Summer Review Packet 2019 -2020



WEEK - 4

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 III. **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 Integrated Math II objectives. Neatly **SHOW YOUR WORK** on a separate sheet of paper.



Summer Packet Gr 8 Entering Gr 9/Week 4 19 -20

Collection: **Private**

Created by [Heleena Veera](#)

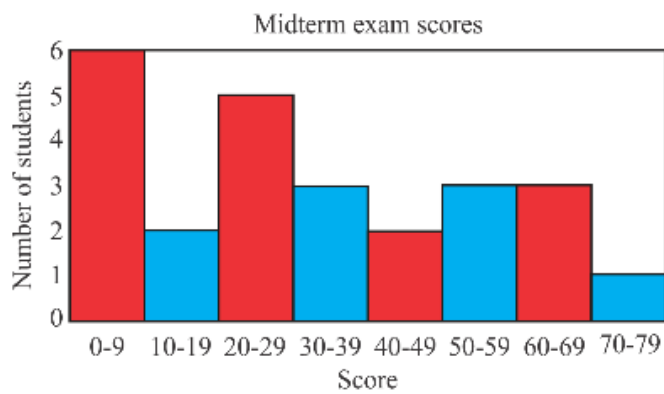
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**Q1:** Rewrite as a simplified fraction.

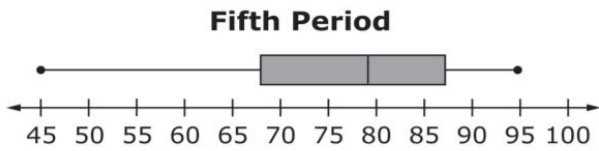
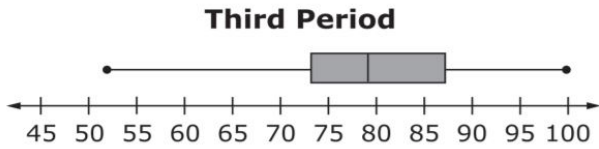
$$0.\overline{72} = ? \quad \boxed{\phantom{000}}$$

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**Q2:** The following histogram represents the marks of students in the mid term examination. The  $y$ -axis represents the number of students who scored the marks represented on the  $x$ -axis. Determine the range of marks that contains the fewest number of students.

**DRAG DROP VALUES**Range:

**Q3:** Two of Mr. Evan's Earth science classes have 23 students each. Box plots for recent test scores for these two classes are displayed.



Which statement about the scores is true?

- A** The means of the two sets of data are equal.
- B** The lower quartiles of the two sets of data are the same.
- C** More students in third period than in fifth period scored an 87 or above.
- D** The number of students in third period who scored from 73 to 79 equaled the number of students in fifth period who scored from 68 to 79.

**Q4:** A list of numbers is shown.

$$7.6, \sqrt{50}, \sqrt{65}, \sqrt{78}, 8.2$$

To plot the numbers on a number line, which list is ordered from least to greatest?

- A**  $\sqrt{50}, \sqrt{65}, \sqrt{78}, 7.6, 8.2$
- B**  $\sqrt{78}, 8.2, \sqrt{65}, 7.6, \sqrt{50}$
- C**  $7.6, 8.2, \sqrt{50}, \sqrt{65}, \sqrt{78}$
- D**  $\sqrt{50}, 7.6, \sqrt{65}, 8.2, \sqrt{78}$

**Q5:** A square-shaped patio has an area of  $256 \text{ ft}^2$ . What are the dimensions of the patio? Use paper to show your work.

Each side of the patio measures  ft.

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**Q6:** Find the positive value of  $x$  that makes the following equation a true number sentence. Use paper to show all work and check the solution.

$$x^2 = \frac{4}{49}$$

The positive value of  $x$  that makes the equation  $x^2 = \frac{4}{49}$  a true number sentence is

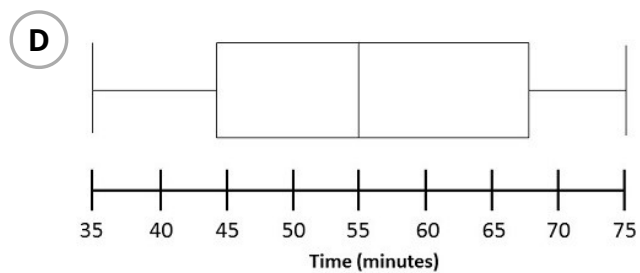
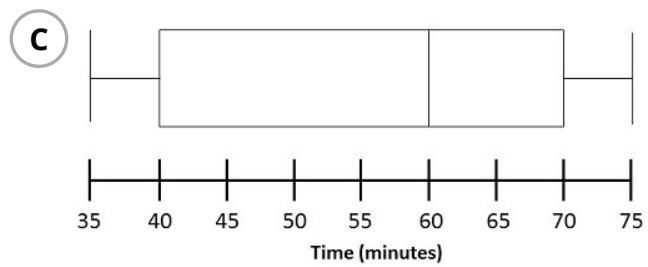
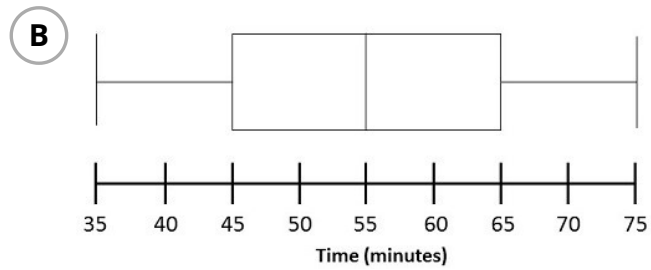
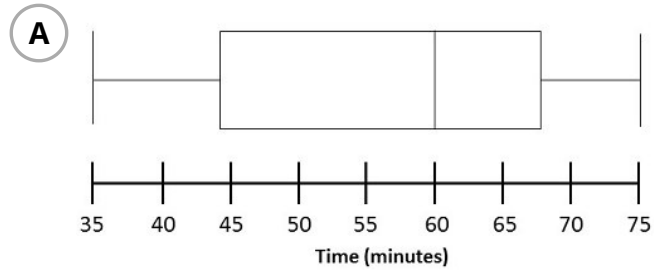
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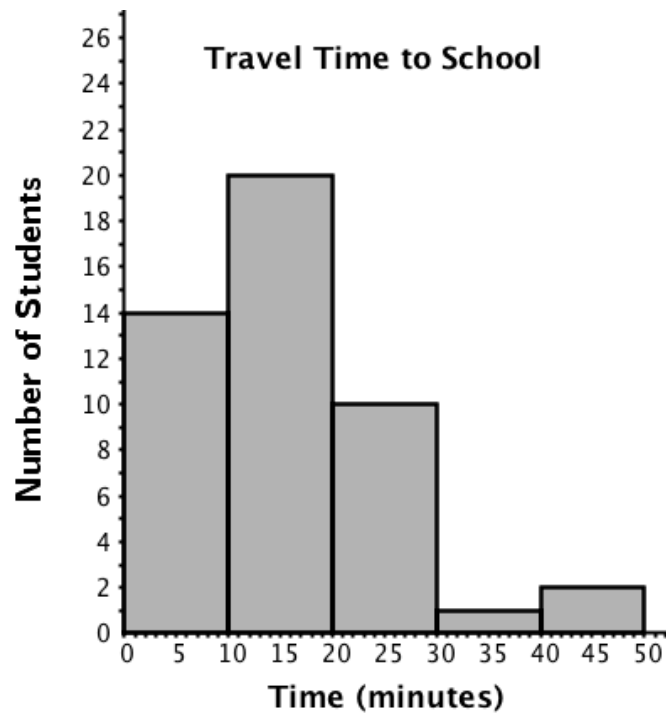
**Q7:** The data below represent the number of minutes that 15 people each spent on their phones in one day.

35, 37, 40, 44, 45, 45, 50, 60, 65, 65, 65, 68, 70, 72, 75

Which box plot represents the data?



**Q8:** The following histogram was based on a random survey of 47 students' travel times to school. Isamar claims that most students have a travel time of less than 20 minutes. Is she correct? Why or why not?



**Q9:** Simplify

$$-\sqrt{\frac{45}{500}}$$



**Q10:** Using the following set of data:

251

243

226

216

196

180

**Part A**

Find the mean. Enter a numeric answer.

**Part B**

Find the median. Enter a numeric answer.



**SELECT TOOL**  
Select the relevant button to use a function.

**Q11:** Mrs. Paulson gave a 10-point quiz to her class. Half of her students attended an after-school tutorial session the day before the quiz, and half of her students did not attend the tutorial session. The quiz scores are given in the tables.

Quiz Scores for Students Who Attended the Tutorial Session					Quiz Scores for Students Who Did Not Attend the Tutorial Session				
10	9	9	6	5	10	2	1	6	9
8	7	7	10	5	4	3	3	2	1
8	10	10	8	7	8	1	5	4	5

a. Create a dot plot for each group of students.

Quiz Scores for Students Who Attended the Tutorial Session	Quiz Scores for Students Who Did Not Attend the Tutorial Session

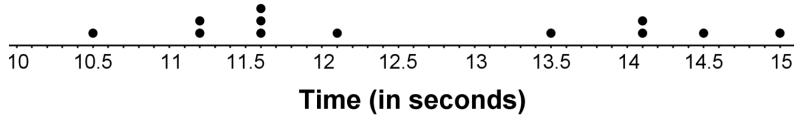
b. Did the group of students who attended the tutorial session perform better than the students who did not attend? Use measures of center and spread to support your answer in the box below.

**Q12:** The table shows the times (in seconds) for twelve members of the Westdale High School track team in the 100-meter dash. The dot plot shows the times (in seconds) for twelve members of the Eastdale High School track team in the 100-meter dash.

**Westdale High School 100-Meter Dash Times (in Seconds)**

10.9	11.1	12.8	11.5
12.2	11.6	13.4	12.9
12.5	11.9	12.2	11.1

**Eastdale High School 100-Meter Dash Times**



a. Use technology to find the following values for each data set. If you need to round your answers, round to the nearest hundredth.

Westdale High School:	Eastdale High School:
Minimum value: <input type="text"/>	Minimum value: <input type="text"/>
Q1 value: <input type="text"/>	Q1 value: <input type="text"/>
Median: <input type="text"/>	Median: <input type="text"/>
Q3 value: <input type="text"/>	Q3 value: <input type="text"/>
Maximum value: <input type="text"/>	Maximum value: <input type="text"/>

b. Choose the correct response to complete each sentence.

- i. The median time for Westdale is  the median time for Eastdale.
- ii. The interquartile range for the Westdale data is  the interquartile range for the Eastdale data.
- iii. The data set for  is more skewed than the data set for the other high school. This data set is skewed .

a.  greater than  
 less than  
 the same as

b.  greater than  
 less than  
 the same as

c.  Westdale  
 Eastdale

d.  right  
 left