

# Integrated Math I Summer Review Packet 2019 -2020



WEEK - 1

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 II. **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 I objectives. Neatly **SHOW YOUR WORK** on a separate sheet of paper.



Summer Packet G7 entering G8 week1 19/20

Collection: **Private**

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**Q1:** 24 students in a class took an algebra test.

If 18 students passed the test, **what percent passed?**

**Answer:**  %

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**Q2:** A six-pack of soda is on sale for \$2.46. Find the cost of one can of soda and drop the appropriate value into the answer blank.

**DRAG DROP VALUES**

**Six pack of soda is on sale  
for \$2.46**



1 can of soda costs

**Q3:** 30% of \$40 is \$  .

**Q4:** Jason buys 2 baseball bats for \$300. What is the unit rate per bat ?

- A \$100
  - B \$125
  - C \$140
  - D \$150
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**Q5:** Yesterday, there were 80 problems assigned for math homework. Harry did 20% of them correctly. How many problems did Harry get right?

**Answer:**  problems.

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**Q6:** Charlie bought a pair of shorts at the store when they were having a 45% off sale. If the regular price of the pair of shorts was \$24, how much did Charlie pay?

**Answer:** \$ .

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**Q7:** On a map,  $\frac{1}{4}$  inch between locations represents an actual distance of 2 miles between the locations.

What is the actual distance, in miles, between two cities that are  $3\frac{3}{4}$  inches apart on the map?

- A 6
  - B 15
  - C 24
  - D 30
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**Q8:** Match the following with their percentage increase or percentage decrease.

From 50 to 60.



From 3200 to 2800.



From 12 to 24.



From 60 to 30.



**ANSWER CHOICES**

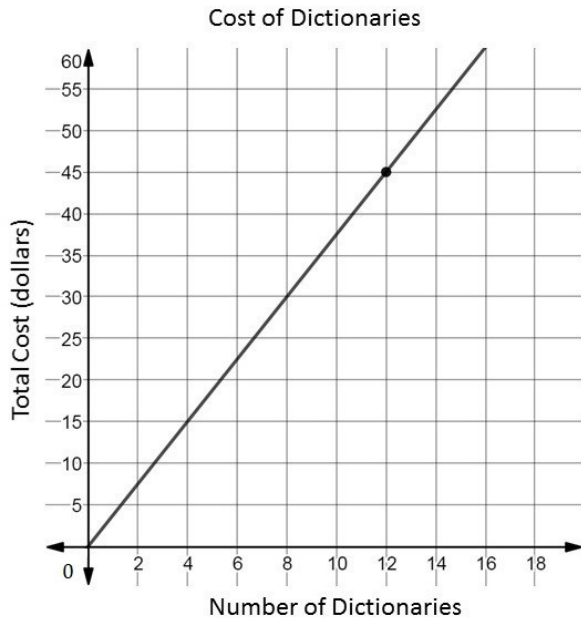
50% decrease

20% increase

100% increase

12.5% decrease

**Q9:** A school bought each 3<sup>rd</sup> grade student a dictionary. The graph models this situation.



What does the point (12, 45) represent?

- A** The cost of 12 dictionaries is \$45.
  - B** For 45 dictionaries, the cost is \$12.
  - C** The total cost of the dictionaries is 12 times \$45.
  - D** The cost of each dictionary is 12 divided by \$45.
-

**Q10:** Mary is saving money for college expenses. She saves the same amount each month. The table shows the amount of money Mary has saved after 4 and 7 months.

Number of Months	Total Amount of Savings (dollars)
4	80
7	140

Which statements about this situation are true and support the relationship as being proportional? Select all that apply.

- A** A constant of \$20 can be multiplied by the number of months to find the amount in the account.
- B** A constant of \$20 can be added to the number of months to find the amount in the account.
- C** The values of the ratios in the table, total amount of savings to number of months, are equivalent.
- D** If graphed on the coordinate plane, the values in the table fall on a line that passes through the origin.
- E** The table of values shows that \$60 is added to the account each month.

**Q11:** Sameen bought  $2\frac{1}{5}$  pounds of carrots for \$6.60. At that rate, how much would 1 pound of carrots cost?

**Q12: Part A**

Jordan's house cost \$100000 in the year 2000.  
In 2008 she sold it for \$90000.

**Was the change in price a positive or negative change?**

**Answer:**

**Part B**

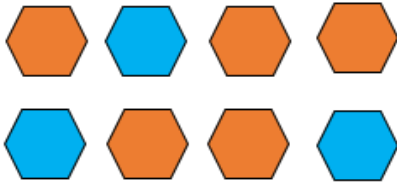
What was the percentage of change in the price of the house?

**Answer:**  %

- a.  Positive  
 Negative



**Q13:** The figure shown below shows some shaded hexagons. Find the ratio of the orange hexagons to the total number of hexagons.



**Answer:**

*Note: Use slash (/) to separate the numerator and the denominator.*

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**Q14:** This table shows how the cost of Dana's birthday party depends on the number of guests.

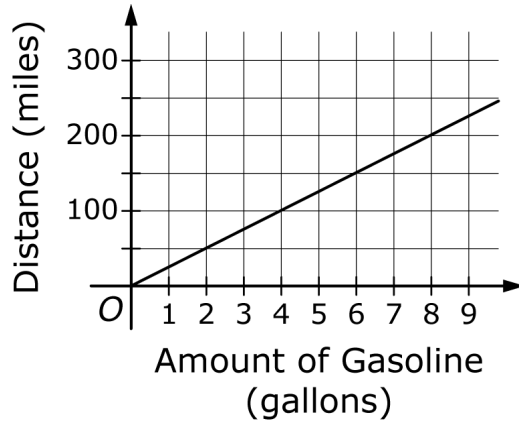
Guests, $x$	3	5
Cost, $y$	\$12	\$20

What is the cost per guest?

**Answer:** \$

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**Q15:** The graph below shows the distance a car can travel,  $y$ , using  $x$  gallons of gasoline.



### Part A

How many miles per gallon does the car get?

 a 

### Part B

How many miles can the car travel using 9 gallons of gasoline?

 b 

- |   |  |
|---|--|
| <p>a.</p> <p><input type="radio"/> miles per ...</p> <p><input type="radio"/> kgs</p> <p><input type="radio"/> meters</p> <p><input type="radio"/> feet</p> | <p>b.</p> <p><input type="radio"/> miles</p> <p><input type="radio"/> yards</p> <p><input type="radio"/> meters</p> <p><input type="radio"/> kgs</p> |
|---|--|

**Q16:** The Smith family went out to dinner.

- The price of the meal was \$29.85.
- The sales tax was 6% of the price of the meal.
- The tip was 15% of the meal and the sales tax.

How much money did the Smith family pay for the meal, including tax and tip?

- A** \$50.85
- B** \$36.39
- C** \$36.12
- D** \$31.95