Integrated Math I 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 II. **<u>You are expected to bring this completed packet to class on the first day of school.</u>** 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.

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Summer Packet G7 entering G8 week4 19/20

Collection: **Private**

Created by Edwin Victor-Louis

Q1: The absolute value of $-\frac{1}{4}$ is

A $-\frac{1}{4}$

B 4

C $\frac{1}{4}$

D 0

Q2: Evaluate the expression

$$-5 + (-13) + 10 - 10 = \boxed{}$$

Q3: If both the integers are negative, then their sum is $\boxed{a \quad\quad\quad \blacktriangledown}$

a.
- ○ always positive
- ○ always negative
- ○ can be positive or can be negative.

Q4: Add:

$$25 + |-14| + 3$$

A 14

B 37

C 42

D 53

Q5: You are playing the Integer Game. Here are the cards in your hand.

4	-8	-3	2
4	**−8**	**−3**	**2**
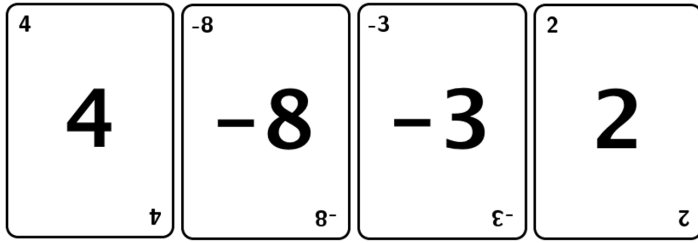
a. What is the current value of your hand?

b. What card(s) could you remove from your hand in order to increase your score? Select all that apply.

A 4

B −8

C −3

D 2

c. In order to win the Integer Game, your hand needs to have a total value that is closest to 0. Which card should you remove from your hand to get as close to 0 as possible?

A 4

B −8

C −3

D 2

What is the new value of your hand?

Q6: Mary owes her mom $4.50. She borrows $2.17 more from her mom. Which expression shows how to determine the amount, in dollars, Mary owes her mom?

A $4.50 - 2.17$

B $-4.50 - 2.17$

C $-4.50 - (-2.17)$

D $-4.50 + 2.17$

Q7: Ronald bikes 6.9 miles each day. How far has Ronald biked in seven days?

Answer: [_____] miles

Q8: Type the integer that makes the following division sentence true.

[_____] $\div (-2) = -3$

Q9: **Part A**

The leader board at the Lakeside Golf Tournament shows that Mei's score is 3 and Noah's score is -6. How many more strokes did Mei take than Noah?

A 3

B 9

C 10

D 8

Part B

Find the total score made by Mei and Noah together.

Answer: [_____]

Q10: At the beginning of the year, Sam weighs 57 pounds. During the year, he loses 4 pounds and then gains 9 pounds. How much does he weigh now? Select your answers from the drop-down lists.

An equation that represents Sam's weight is $57 +$ [a ▾] $+$ [b ▾] $=$

[c ▾].

a.
- ○ -4
- ○ 4

b.
- ○ -9
- ○ 9

c.
- ○ 44
- ○ 52
- ○ 62
- ○ 70

Q11: Without evaluating each expression, determine if the sign of the answer is positive or negative.

Expression	Positive	Negative
$\frac{3}{4} \div (-5) \times 16 \times (-2) \div \frac{1}{5} \times (-1)$		
$-10 \times \left(-\frac{3}{4}\right) \div 15 \times \frac{2}{3} \times \left(-\frac{1}{5}\right) \times (-4)$		
$-2 \times (-2) \div (-2) \times (-2) \div (-2) \times (-2)$		

Q12: The height of three students in the class are given below. Order the students from shortest to tallest.

Name	Height(in meters)
Janis	$\frac{5}{3}$
Carl	1.70
Catherine	$1\frac{4}{3}$

‖	Catherine

‖	Carl

‖	Janis

Q13: Which situation can be represented by the equation $1\frac{1}{4} \times 6 = 7\frac{1}{2}$?

A It took Calvin $1\frac{1}{4}$ hours to run 6 miles. He ran $7\frac{1}{2}$ miles per hour.

B Sara read for $1\frac{1}{4}$ hours every day for 6 days. She read for a total of $7\frac{1}{2}$ hours.

C Matthew addressed $1\frac{1}{4}$ envelopes in 6 minutes. He addressed $7\frac{1}{2}$ envelopes per minute.

D It took Beth $1\frac{1}{4}$ minutes to paint 6 feet of a board. She painted a total of $7\frac{1}{2}$ feet of the board.

Q14: At a trampoline park, jumpers pay a jumping price, p, per hour and a one-time sock fee, s.

Part A

Which expression represents the cost for 5 friends to jump at the trampoline park for one hour?

A $5p + s$

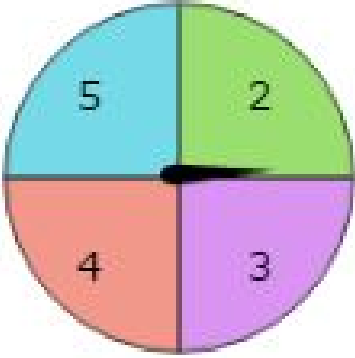**B** $5(p + s)$

C $(p + s) + 5$

D $p + s$

Part B

If the jumping price is $\$18.50$ per hour and the fee for socks is $\$3.25$, what is the total cost, in dollars, for the 5 friends to jump for one hour?

The total cost is $\$ \underline{\hspace{3cm}}$.

Q15: You spin the spinner below once.

What is the $P(\text{getting a number less than 5})$**?**

$\textbf{A}$) 1

$\textbf{B}$) $\frac{3}{4}$

$\textbf{C}$) $\frac{1}{2}$

$\textbf{D}$) 2

Q16: Gary randomly chose an item from the following lot:

Use this lot to match the questions in the first column with their corresponding answer.

| Probability of choosing an ice-cream cone from the lot? | ⟷ | |
Probability of choosing a soccer ball from the lot?	⟷	
Probability of choosing a book from the lot?	⟷	
Probability of choosing a coin from the lot?	⟷	

ANSWER CHOICES

$\dfrac{5}{14}$

$\dfrac{2}{7}$

$\dfrac{1}{7}$

$\dfrac{3}{14}$

Q17: The principal of the school is looking over grade reports, specifically scores on math quizzes.
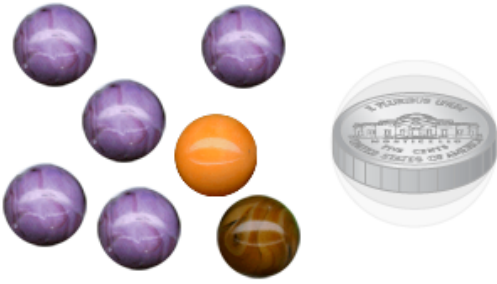
This box-and-whisker plot shows the results.
Find **median and range** in the given box plot:

Math quiz scores
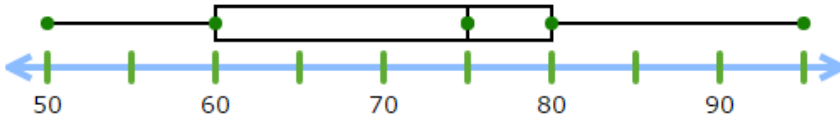
Median $=$ [   ] and **Range** $=$ [   ]

Q18: What is the probability of picking an orange marble and flipping tails?

A $\frac{1}{7}$

B $\frac{8}{14}$

C $\frac{2}{14}$

D $\frac{1}{14}$

Answer Key of Summer Packet G7 entering G8 week4 19/20

1. C

2. -18 9/9

3. always negative

4. C

5. A. -5
   B. B,C
   C. C
   D. -2

6. B

7. 48.3

8. 6

9. A. B
   B. -3

10. -4
   9
   62

11. Tech Enhanced Item

12. Tech Enhanced Item

13. B

14. A. B
   B. 108.75

15. B

16. Tech Enhanced Item

17. 75

   45

18. D