

Name _____

UCS MATH 7 Semester 1 Exam---REVIEW #1

1 The highest temperature ever recorded in Florida was on June 29, 1931. The temperature that day was 109°F . What number represents the additive inverse of this record high temperature?

A -109

C $\frac{1}{109}$

B 0

D 218

2 Which two numbers have a combined distance of 22.6 from 0 on the number line?

A 12.8 and -9.2

C -18.2 and 4.1

B 18.4 and -3.2

D -11.4 and 11.2

3 This chart shows the temperatures taken at noon for five consecutive days.

If the difference between the temperature on Wednesday and the temperature on Thursday is $|17|$ degrees, what is Thursday's temperature?

Day	Temperature ($^{\circ}\text{F}$)
Monday	65°
Tuesday	70°
Wednesday	71°
Thursday	n
Friday	93°

A -17°

C 77°

B 17°

D 88°

- 4** In the first week of a fundraiser, Kyle sold 8 magazines. In the second week, he did not sell any magazines. Which property of real numbers is demonstrated by the equation $8 + 0 = 8$?
- A** Associative property of addition
 - B** Commutative property of addition
 - C** Identity property of addition
 - D** Distributive property
- 5** A ferry from town A to a nearby island runs 8 times each day. The maximum capacity of the ferry is 85 people. What is the maximum number of people the ferry can take from town A to the island each day?
- A** 85 people
 - B** 170 people
 - C** 680 people
 - D** 850 people
- 6** Marlee recorded the temperature at 12:00 p.m. as 73°F . At 3:00 p.m. she recorded the temperature as 61°F . What is the change in temperature per hour?
- A** -12°F
 - B** -4°F
 - C** 4°F
 - D** 12°F
- 7** Jared's class measured the daily outside temperature throughout the school year. The lowest temperature that the students recorded was -7°F , and the highest was 95°F . What is the difference between the highest and lowest temperatures?
- A** 88°F
 - B** 89°F
 - C** 98°F
 - D** 102°F

11 Solve.

$$5\frac{1}{2} - \left(-6\frac{1}{4}\right)$$

A $-11\frac{3}{4}$

B $11\frac{3}{4}$

C $-\frac{3}{4}$

D $\frac{3}{4}$

12 Mr. Sanford asked his class to rewrite this expression using the **commutative** property of multiplication.

$$(2 \times 3) \times 7$$

Which of the following is correct?

A $7 \times (2 \times 3)$

C $2 \times (3 \times 7)$

B $(2 \times 7) + (3 \times 7)$

D $(7 + 2) \times (7 + 3)$

13 When Cal and Ina arrived late for a pizza party, there was only $\frac{1}{2}$ of a pepperoni pizza and $\frac{1}{3}$ of a cheese pizza remaining. Together they $\frac{1}{2}$ ate of the remaining amounts of each pizza.

- Using the distributive property, write an expression to determine the fraction of both pizzas they ate.

- Simplify the expression to determine how much pizza they ate all together. Use words, numbers, and/or pictures to show your work. Write your answer(s) below.

SHORT ANSWER:

20 Evaluate the expression when $x = 3$ and $y = -8$ and $x^2 + 5y - 2$.

A -36

C 47

B -33

D 77

21 Which fraction is equivalent to $\frac{5}{6}$?

A $\frac{15}{24}$

C $\frac{45}{54}$

B $\frac{25}{36}$

D $\frac{55}{60}$

22 Pauline paid \$3.85 for a long-distance phone call she made to her grandmother. Her phone company charged \$0.20 to connect and \$0.05 per minute. Solve the equation $0.05m + 0.20 = 3.85$ to find the number of minutes, m , that Pauline was on the phone with her grandmother.

A 73 minutes

C 81 minutes

B 77 minutes

D 97 minutes

23 Leslie budgeted no more than \$25 for a newspaper ad. The ad costs \$11 plus \$2 per line (L). She uses this inequality to find how many lines the ad can contain:

$$2L + 11 \leq 25$$

What is the GREATEST number of lines Leslie can have in her ad?

A 5

C 12

B 7

D 14

