Date:		Instructors: Peter C	Curley, Channing Hodgkins
			Total Score:
Student	Name/ID#:		/ 100
A DCUDISHOD W/	ILLIAMS HIGH SCHOOL - AWHS SUMMER	MATH ASSIGNMENTS 2021: SECTION 1	
Student	s entering ALGEBRA	I (All levels) - Summer Assignment	
	NS: This assignment is to help p TING WORK as required by the _l	orepare you for Algebra I by helping you recall key, foundation topcs. Answord Oroblem. Do your own work.	er all questions. SHOW
Each probler	n has a topic resource name wh	ich you can use to look up the topic covered.	
QUESTIC	DN 1		/1
Topic Reso	ource: Place Value		
Select the	place value of the <u>underlin</u>	<u>ed</u> digit: 1. <u>2</u> 30	
Α	tenths	B tens	
С	thousandths	D unit	
E	hundredths		
QUESTIC	DN 2		/1
Topic Reso	ource: Place Value		
-	place value of the <u>underlin</u>	<u>ed</u> digit: 12.49 <u>0</u> 8	
Α 📗	hundredths	B tenths	
С	ten-thousandths	D tens	
E	thousandths	F unit	
QUESTIC	DN 3		/1

Topic Resource: Place Value					
Round the number to the underlined place value	position: 5 <u>4</u> .381				
A 54	B 54.4				
C 50	D 54.3				
QUESTION 4		/1			
Topic Resource: Rounding Decimals					
Round the number to the nearest hundredth: 45.	7215				
A 45.722	B 45.72				
C 45.721	D 45.73				
QUESTION 5					
QUEUTION		/1			
Topic Resource: Rounding Decimals					
Round the number to the underlined place value	position: 321. <u>9</u> 87				
A 321.0	B 321.9				
C 321.99	D 322.0				
021.00	022.0				
QUESTION 6		/4			
		/1			
Topic Resource: Ordering Decimals					
Drag the numbers to place them in order from least to greatest.					
≡ 114.2 ≡ 114.02 ≡ 114.202 ≡	114.002				

QUESTION 7

Topic Resource: Fractions in Lowest Terms

Which of the following is the fraction, $\frac{12}{18}$ in lowest terms?

 $\mathbf{A} \qquad \boxed{\qquad} \qquad \frac{4}{3}$

 $c \qquad \frac{2}{3}$

 $D \qquad \qquad \frac{1}{4}$

QUESTION 8



Topic Resource: Fractions, Improper and Mixed

Which of the following is $3\frac{4}{5}$ written as an improper fraction?

A $\frac{32}{5}$

B $\frac{19}{5}$

c $\frac{12}{5}$

QUESTION 9



Topic Resource: Fractions, Improper and Mixed Which of the following is $\frac{31}{8}$ written as a mixed number?

B $3\frac{7}{8}$

C $4\frac{7}{8}$

D $3\frac{1}{8}$

QUESTION 10



Topic Resource: Comparing and Ordering Fractions

Drag the numbers to place them in order from least to greatest.

$$\equiv \quad \frac{2}{3} \quad \equiv \quad \frac{4}{9} \quad \equiv \quad \frac{5}{6} \quad \equiv \quad \frac{7}{12}$$

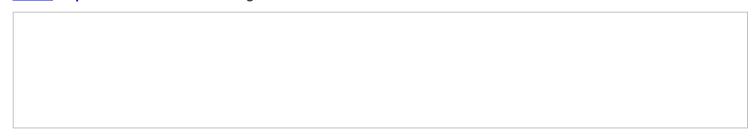
QUESTION 11

Topic Resource: Dividing Decimals

When Damien divided $12.6 \div 0.003~$ and his answer of 4.2 was marked wrong.

Part 1: What is the correct answer?

Part 2: Explain what Connor did wrong.



QUESTION 12

/1

Topic Resource: Writing Fractions as Decimals

Which of the following is the decimal equivalent of $\frac{5}{8}$?

A 0.625

B 0.64

C 0.58

D 1.6

QUESTION 13

/1

Topic Resource: Writing Decimals as Fractions

Which of the following is the decimal 0.45 written as a fraction in lowest terms?

 $\mathbf{A} \qquad \qquad \frac{4}{5}$

B $\frac{3}{20}$

c $\frac{9}{20}$

 $\mathbf{D} \quad \boxed{\qquad} \quad \frac{2}{5}$

QUESTION 14

/2

Topic Resource: Order of Operations Stephanie and Pete each simplified the expression, $30(6-4)$ Unfortunately, they did not get the same result.
Stephanie was convinced the answer was 176.
Pete was certain the answer was 60.
Simplify the expression $30(6-4)$ on your own and determine who is correct.
Part 1: Type the name of the person with the correct answer.
Part 2: Explain your answer. How do you now that person had the correct answer? Be specific.
QUESTION 15
Topic Resource: Order of Operations Heather and Tom each simplified the expression, $81\div27\times6-2$ Unfortunately, they did not get the same result.
Heather was convinced the answer was 16.
Tom was certain the answer was 12.
Simplify the expression $81 \div 27 \times 6 - 2$ on your own and determine who is correct.
Part 1: Type the name of the person with the correct answer.
Part 2: Explain your answer. How do you now that person had the correct answer? Be specific.
QUESTION 16

Topic Resource: Order of Operations

Simplify the expression: $\frac{5 \ + \ \sqrt{(-5)^2 - 4(1)(6)}}{2}$

A 5.5

c 6

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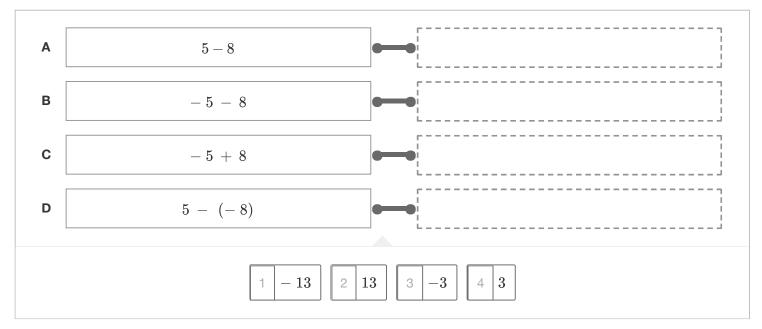
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QUESTION 17

/4

Topic Resource: Integer Arithmetic

Match each expression with the correct answer.

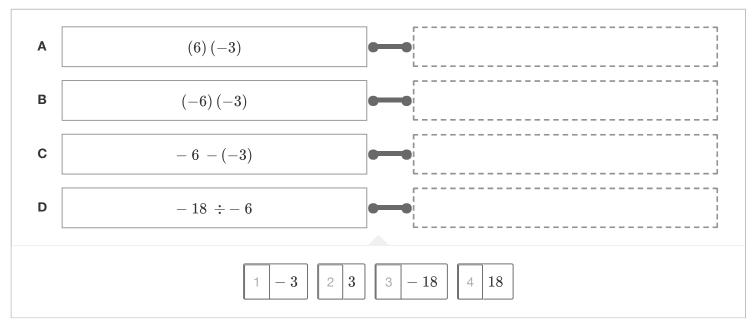


QUESTION 18

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Topic Resource: Integer Arithmetic

Match each expression with the correct answer.



QUESTION 19

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Topic Resource: Properties of Addition

The equation 7+x=x+7 , illustrates the

1 .

The equation (x + 4) + 6 = x + (4 + 6) , illustrates the

2

Choose one option for each blank section

- 1 Commutative Property of Addition
- 2 Commutative Property of Addition
- 1 Associative Property of Addition
- 2 Associative Property of Addition

QUESTION 20

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Topic Resource: Solving Equations Mary and Jason each solved the equation, 3x + 8 = 29 Unfortunately, they did not get the same result. Mary was convinced that x = 18. Jason was certain that x = 7. Solve the equation 3x + 8 = 29 on your own and determine who is correct. Part 1: Type the name of the person with the correct answer. Part 2: Explain your answer. How do you now that person had the correct answer? Be specific. **QUESTION 21** Topic Resource: Solving Equations Millie and Dan each solved the equation, 3x + 2x + 50 = 90 Unfortunately, they did not get the same result. Millie was convinced that x = 6.7. Dan was certain that x = 8. Solve the equation 3x + 2x + 50 = 90 on your own and determine who is correct. <u>Part 1:</u> Type the name of the person with the correct answer. Part 2: Explain your answer. How do you now that person had the correct answer? Be specific. **QUESTION 22**

Topic Resource: Graph Inequalities on a Number Line

Which of the following describes the graph on the number line?



A x < 3

 $\mathbf{B} \qquad \mathbf{x} > 3$

C x ≥ 3

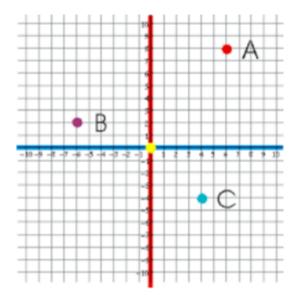
D x ≤ 3

QUESTION 23

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Topic Resource: Graphing on the Coordinate Plane

Which of the following are the coordinates of Point B?



A (6, 2)

B (2, -6)

c (-6, -2)

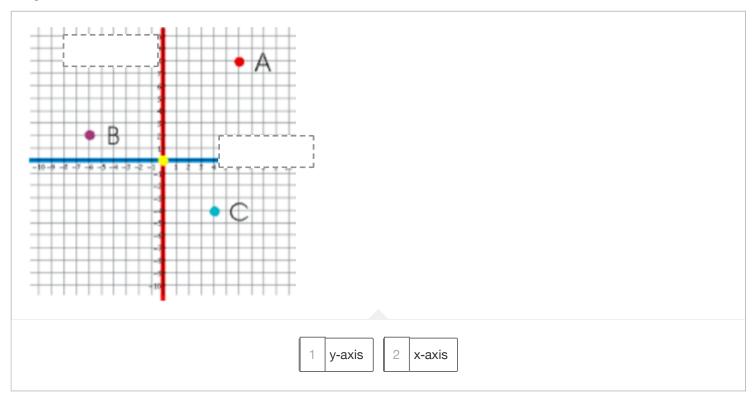
D [-6, 2]

QUESTION 24

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Topic Resource: Graphing on the Coordinate Plane

Drag the correct label to the correct location.



QI	JESTION 25		/1
Торіс	Resource: Percent		
Whic	n of the following is 16% of 380?		
A	60.8	B 6.08	
С	6080	D 608	
QI	JESTION 26		/1

Topic Resource: Percent

A lamp is on sale for 25% off.

What is the sale price of the lamp, if the original price is \$108?

A \$ 133

B \$81

C \$83

D \$ 27

QUESTION 27

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Topic Resource: Adding Fractions

Simplify the expression $\frac{5}{12}+\frac{7}{8}$

A $\frac{31}{24}$

B $\frac{12}{20}$

 $C \qquad \frac{3}{5}$

D $\frac{31}{40}$

QUESTION 28



Topic Resource: Multiplying Fractions

Simplify the expression, $\left(2\frac{2}{5}\right)$. $\left(1\frac{3}{7}\right)$.

A $2\frac{6}{35}$

B $3\frac{3}{7}$

c $3\frac{6}{35}$

D $2\frac{3}{7}$

QUESTION 29



Topic Resource: Dividing Fractions Simplify the expression, $3\frac{1}{4} \div 2\frac{1}{3}$.

A $2\frac{11}{28}$

B $2\frac{3}{4}$

c $1\frac{3}{4}$

D $1\frac{11}{28}$

QUESTION 30

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Topic Resource: Adding Decimals

When Gertrude added 75.12 + 21.5 her answer of 77.27 Is Gertrude correct?

A Ye

No, the answer is 75.62

- С
- No, the answer is 96.62
- **D** No, the answer is 96.27

QUESTION 31

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Topic Resource: Solving Equations

I solved the following equation using the steps shown, but my answer did not check.

$$5x - 8 = 3x + 15$$
 (1)

$$2x - 8 = 15$$
 (2)

$$2x = 7$$
 (3)

$$x = 3.5$$
 (4)

Find the step where the mistake was made.

A -

в 2

c (

D 4