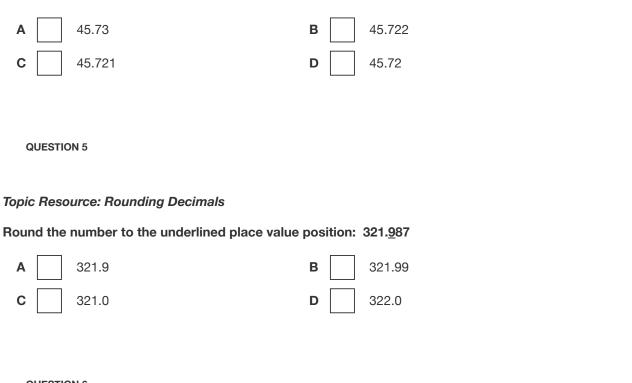
Date:	instructors: Peter Curie	y, Channing Hougkins, Jared Lyons
Student Name/ID#:		Total Score:
		/ 100
ARCHBISHOP WILLIAMS HIGH SCHOOL - AWHS SUMME	R MATH ASSIGNMENTS: SECTION 1	
Students Entering ALGEBRA	I (All levels) - Summer Assignment	
INSTRUCTIONS: This assignment is to help ALL SUPPORTING WORK as required by the	prepare you for Algebra I by helping you recall key, foundation topes problem. Do your own work.	s. Answer all questions. SHOW
Each problem has a topic resource name w	hich you can use to look up the topic covered.	
QUESTION 1		/1
Topic Resource: Place Value		
Select the place value of the <u>underlir</u>	ned digit: 1. <u>2</u> 30	
A tenths	<b>B</b> hundredths	
C thousandths	<b>D</b> unit	
E tens		
QUESTION 2		
Q020110N2		/1
Topic Resource: Place Value		
Select the place value of the underlin	ned digit: 12.49 <u>0</u> 8	
A ten-thousandths	B thousandths	
C unit	<b>D</b> tens	
E hundredths	F tenths	
QUESTION 3		
		/1

# 



QUESTION 6

**Topic Resource: Ordering Decimals** 

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

 $\equiv$  114.2  $\equiv$  114.02  $\equiv$  114.202  $\equiv$  114.002

QUESTION 7 /1

# Topic Resource: Fractions in Lowest Terms

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

 $\mathbf{A} \qquad \qquad \frac{4}{9}$ 

 $\mathbf{B} \qquad \qquad \frac{1}{4}$ 

 $\mathbf{c} \quad \boxed{\qquad} \quad \frac{2}{3}$ 

**QUESTION 8** 



Topic Resource: Fractions, Improper and Mixed

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

**A**  $\frac{12}{5}$ 

**B**  $\frac{19}{5}$ 

**c**  $\frac{32}{5}$ 

**QUESTION 9** 



Topic Resource: Fractions, Improper and Mixed

Which of the following is  $\frac{31}{8}$  written as a mixed number?

**A**  $4\frac{7}{8}$ 

**B**  $3\frac{1}{8}$ 

**c**  $3\frac{7}{8}$ 

**D**  $4\frac{1}{8}$ 

QUESTION 10



**Topic Resource: Comparing and Ordering Fractions** 

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

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

Topic nesource. Adding Fractions
Betty and Will each simplified the expression, $\frac{5}{12}+\frac{7}{8}$ . Unfortunately, they did not get the same result.
Betty was convinced the answer was $\frac{31}{24}$ .
Will was certain the answer was $\frac{12}{20}$ or $\frac{3}{5}$ reduced to lowest terms.
Simplify the expression $rac{5}{12}+rac{7}{8}$ 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 12
Topic Resource: Multiplying Fractions
Gabby and Aidan each simplified the expression, $\left(2\frac{2}{5}\right)$ . $\left(1\frac{3}{7}\right)$ . Unfortunately, they did not get the same result.
Gabby was convinced the answer was $2\frac{6}{35}$
Aidan was certain the simplified answer was $3\frac{3}{7}$
Simplify the expression $\left(2rac{2}{5} ight)$ . $\left(1rac{3}{7} ight)$ 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.

Topic Resource: Dividing Fractions	
Ava and Jack each simplified the expression, $3\frac{1}{4}\div2\frac{1}{3}$ . Unfortunately, they did not get the same result.	
Ava was convinced the answer was $1\frac{11}{28}$	
Jack was certain the simplified answer was $1\frac{3}{4}$	
Simplify the expression $3\frac{1}{4} \div 2\frac{1}{3}$ 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 14	
Topic Resource: Adding Decimals When Gertrude added 75.12 + 21.5 her answer of 77.27 was marked wrong.	
Part 1: What is the correct answer?	
Part 2: Explain what Gertrude did wrong.	
Explain what dora do did wrong!	
QUESTION 15	

When Conor multiplied (6.12)(3.5) and his answ	ver of <mark>214.2</mark> was marked wrong.	
Part 1: What is the correct answer?		
Part 2: Explain what Connor did wrong.		
011707701110		
QUESTION 16		/2
Topic Resource: Dividing Decimals		
When Damien divided $12.6 \div 0.003$ and his an	swer of 4.2 was marked wrong.	
Part 1: What is the correct answer?		
Part 2: Explain what Connor did wrong.		
QUESTION 17		/-
Topic Resource: Writing Fractions as Decimals		
Which of the following is the decimal equivalen		
<b>A</b> 0.58	<b>B</b> 0.625	
<b>C</b> 1.6	<b>D</b> 0.64	
QUESTION 18		/-

**Topic Resource: Multiplying Decimals** 

Topic Resource: Writing Decimals as Fractions Which of the following is the decimal 0.45 written as a fraction in lowest terms? **QUESTION 19 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.

## **Topic Resource: Order of Operations**

Heather and Tom each simplified the expression,  $81 \div 27 \times 6 - 2$  Unfortunately, they did not get the same result.

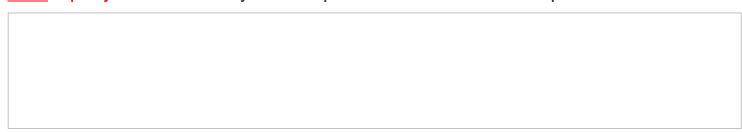
Heather was convinced the answer was 16.

#### 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.



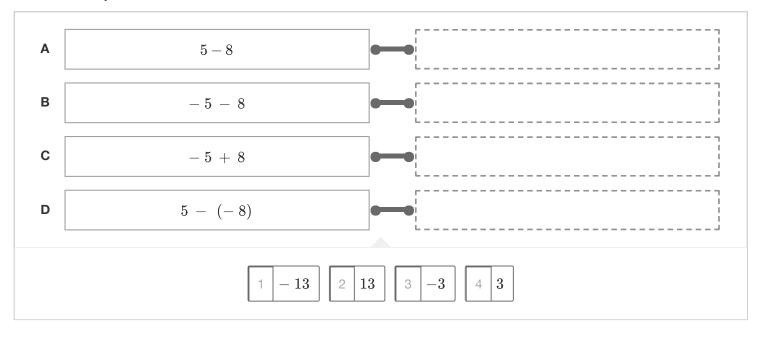
Topic Resource: Order of Operations

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

**QUESTION 21** 

# Topic Resource: Integer Arithmetic

Match each expression with the correct answer.

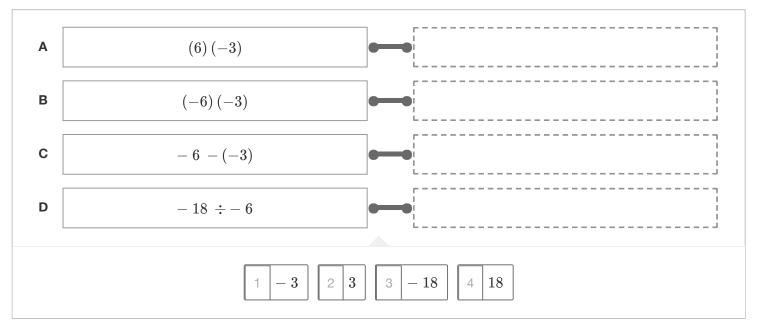


**QUESTION 23** 

/4

## Topic Resource: Integer Arithmetic

Match each expression with the correct answer.



**QUESTION 24** 

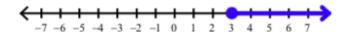
/2

Topic Resource:	Properties of Addition	
The equation 7+	$x=x+7$ , illustrates the $oxed{1}$ .	
The equation (x	(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	
Mary was convince  Jason was certain to  Solve the equation  Part 1: Type the na	ach solved the equation, $3x+8=29$ Unfortunately, they did not get the same result. Bed that x = 18 .	
QUESTION 26		

Topic Resource: Solving Equations $ \hbox{Millie and Dan each solved the equation, } 3x \ + \ 2x \ + \ 50 \ = \ 90 \ \hbox{ Unfortunately, they did not get the same results} $	lt.	
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.		
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 27		
QUESTION 21		/2
Topic Resource: Solving Equations I solved the following equation using the steps shown, but my answer did not check.		
5x - 8 = 3x + 15		
2x - 8 = 15		
2x~=~7		
x~=~3.5		
Part 1: Explain the mistake that I made.		
Part 2: What is the correct answer?		

## Topic Resource: Graph Inequalities on a Number Line

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



 $A \qquad x > 3$ 

**B** x < 3

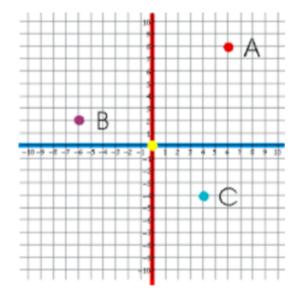
**D** x < 3

**QUESTION 29** 

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### Topic Resource: Graphing on the Coordinate Plane

Which of the following are the coordinates of Point B?



**A** (6, 2)

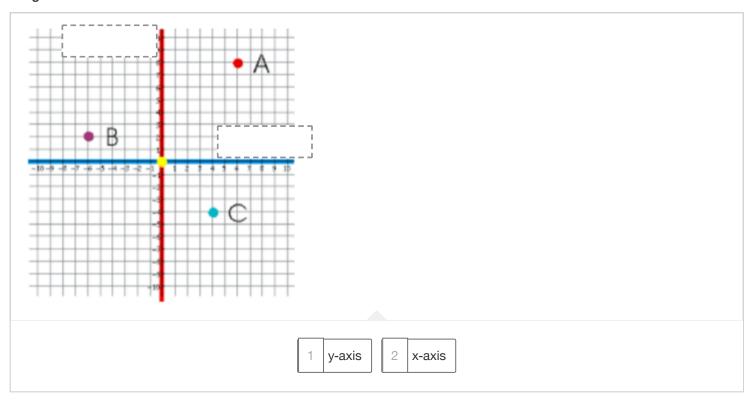
**B** (-6, -2)

 $c \mid (2, -6)$ 

D = (-6, 2)

# Topic Resource: Graphing on the Coordinate Plane

Drag the correct label to the correct location.



Q	UESTI	DN 31			/1
Topic	Resc	ource: Percent			
Whic	h of t	he following is 16% of 380?			
A		60.8	В	6080	
С		608	D	6.08	
_					
Q	UESTI	ON 32			/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** \$ 27

**C** \$83

**D** \$81