

Summer AMC 8- Workshop 3

This material is designed for use in the classroom to simulate a Mock Exam.

To ensure accurate evaluation results, please DO NOT allow children to preview or complete the corresponding exercises in advance.

We will upload the classnotes (as the answers and solutions) after the class (exam).

Self-Round

1	Casey's shop class is making a golf trophy. He has to paint dimples on a golf ball. If it takes him
	seconds to paint one dimple, how many minutes will he need to do his job? ().

- A. 4
- B. **6**
- C. 8
- D. 10
- E. 12

$$\frac{10^7}{5 \times 10^4} = () .$$

- A. **0.002**
- B. **0.2**
- C. 20
- D. 200
- E. 2000
- What is the sum of the mean, median, and mode of the numbers 2, 3, 0, 3, 1, 4, 0, 3? ().
 - A. 6.5
- B. 7
- C. 7.5
- D. 8.5
- E. 9
- iggleq The sum of two prime numbers is 85. What is the product of these two prime numbers? () .
 - A. 85
- B. 91
- C. 115
- D. 133
- E. 166



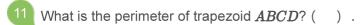
Paul owes Paula 35 cents and has a pocket full of 5-cent coins, 10-cent coins, and 25-cent coins							
that he can use to pay her. What is the difference between the largest and the smallest number							
of coins he can use to pay her? () .							
A. 1	B. 2	C. 3	D. 4	E. 5			
A burger at Ricky C's weighs 120 grams , of which 30 grams are filler. What percent of the							
burger is not filler? () .							
A. 60 %	B. 65 %	C. 70%	D. 75 %	E. 90%			
How many 4-digit numbers greater than 1000 are there that use the four digits of 2012 ? () .							
A. 6	B. 7	C. 8	D. 9	E. 12			
A haunted house has six windows. In how many ways can Georgie the Ghost enter the house							
by one window and leave by a different window? () .							
A. 12	B. 15	C. 18	D. 30	E. 36			
-Class							
Amy, Bill and Ce	Amy, Bill and Celine are friends with different ages. Exactly one of the following statements is						
true.							
I. Bill is the oldest.							
II. Amy is not the oldest.							
III. Celine is not the youngest.							
Rank the friends from the oldest to the youngest () .							
A. Bill, Amy, Celine B. Amy, Bill, Celine C. Celine, Amy, Bill D. Celine, Bill, Amy							

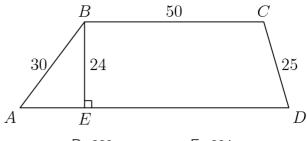
E. Amy, Celine, Bill

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In a mathematics contest with ten problems , a student gains 5 points for a correct answer and loses 2 points for an incorrect answer. If Olivia answered every problem and her score was 29 , how many correct answers did she have? () .

- A. 5
- B. 6
- C. 7
- D. 8
- E. 9



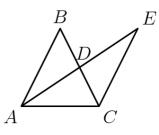


- A. 180
- B. 188
- C. 196
- D. 200
- E. 204
- Big Al the ape ate 100 delicious yellow bananas from May 1 through May 5. Each day he ate six more bananas than on the previous day. How many delicious bananas did Big Al eat on May 5?

 () .
 - A. 20
- B. **22**
- C. 30
- D. 32
- E. 34
- 13 How many two-digit numbers have digits whose sum is a perfect square?().
 - A. **13**
- B. **16**
- C. 17
- D. 18
- E. 19
- Let a , b and c be numbers with 0 < a < b < c. Which of the following is impossible? () .
 - A. a+c < b
- B. $a \cdot b < c$
- $\mathsf{C.} \ a+b < c$
- D. $a \cdot c < b$

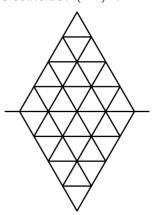
- E. $\frac{b}{c} = a$
- Triangle ABC is an isosceles triangle with $\overline{AB} = \overline{BC}$. Point D is the midpoint of both \overline{BC} and \overline{AE} , and \overline{CE} is 11 units long. Triangle ABD is congruent to triangle ECD. What is the length of \overline{BD} ? () .





- A. 4
- B. **4.5**
- C. 5
- D. 5.5
- E. 6
- 16 If $3^p+3^4=90$, $2^r+44=76$, and $5^3+6^s=1421$, what is the product of p, r, and s? () .
 - A. 27
- B. 40
- C. 50
- D. 70
- E. 90
- The students in Mr. Neatkin's class took a penmanship test. Two-thirds of the boys and $\frac{3}{4}$ of the girls passed the test, and an equal number of boys and girls passed the test. What is the minimum possible number of students in the class? () .
 - A. 12
- B. 17
- C. 24
- D. 27
- E. 36
- Each half of this figure is composed of 3 red triangles, 5blue triangles and 8 white triangles.

 When the upper half is folded down over the centerline, 2 pairs of red triangles coincide, as do 3 pairs of blue triangles. There are 2 red-white pairs. How many white pairs coincide? () .



- A. 4
- B. **5**
- C. 6
- D. 7
- E. 9