## The CENTRE for EDUCATION in MATHEMATICS and COMPUTING



1. The value of  $(4-3) \times 2$  is (A)-2 (B) 2

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## Gauss Contest Grade 7 Problems

(C) 1 (D) 3

(E) 5

2. Which number (A) 10	r represents ten (B) 10 000 000		(D) 100	(E) 1 000			
3. What integer s	should be placed (B) 4	l in the to ma (C) 3	ake the statemen	t 5 = 2 true? (E) 8			
4. If Mukesh got get? (A) 40	80% on a test w (B) 62.5	hich has a total o	of 50 marks, how (D) 45	many marks did he (E) 35			
5. The sum $\frac{7}{10}$ + (A) 0.937	$\frac{3}{100} + \frac{9}{1000}$ is equal (B) 0.9037	nal to (C) 0.7309	(D) 0.739	(E) 0.0739			
6. Mark has $\frac{3}{4}$ of (A) \$0.90	a dollar and Ca (B) \$0.95	rolyn has $\frac{3}{10}$ of a (C) \$1.00	dollar. Togethe (D) \$1.10	r they have (E) \$1.05			
7. Six students have an apple eating contest. The graph shows the number of apples eaten by each student. Lorenzo ate the most apples and Jo ate the fewest. How many more apples did Lorenzo eat than Jo?							
Apples 4 2 Students							
(A) 2	(B) 5	(C) 4	(D) 3	(E) 6			
8. In the diagran	ı, what is the va	lue of $x$ ?	ò				
(A) 110	(B) 50	(C) 10	(D) 60	(E) 70			
9. The word BANK is painted exactly as shown on the outside of a clear glass window.  Looking out through the window from the inside of the building, the word appears as  (A) BANX (B) KNAS (C) SANX (D) XNAS (E) KNAB							
10. A large box of chocolates and a small box of chocolates together cost \$15. If the large box costs \$3 more than the small box, what is the price of the small box of chocolates?  (A) \$3 (B) \$4 (C) \$5 (D) \$6 (E) \$9							
	two numbers be	, 2, 3, 5,,, eac efore it. For exan f the following no (C) 22	nple, the next nu	ımber in the			
		If the probability					

(A) 7	stamps? (B) 13	(C) 4	(D) 8	(E) 9
in how many d	ifferent possibl	e orders can they	finish?	If there are no ties,
(A) 7	(B) 6	(C) 5	(D) 4	(E) 3
5. How many posi	itive whole nun	nbers, including	1, divide exactly	into both 40 and
72? (A) 9	(B) 12	(C) 4	(D) 2	(E) 5
6. In the diagram scale. What is			ss (weight) of the	shapes on that
	_ <del></del>	0 000	044	
(A) 3	(B) 5	(C) 12	(D) 6	(E) 5.5
(A) 3	(в) з	(0) 12	(D) 0	(E) 3.3
7 To rout a kerry	rand a noddi-	there is a five 3	foo to nee the	ddla plue a charac
	to use the kaya	k. For a three ho		ddle, plus a charge tal cost is \$30. What
(A) \$50	(B) \$15	(C) \$45	(D) \$60	(E) \$90
Julie's birthda (A) Saturday	y? (B) Sunday	(C) Monday	(D) Tuesday	(E) Wednesday
at least two 7's (A) 10			(D) 30	hese numbers have (E) 19
(11) 10	(D) 11	(0)21	(2) 30	(1) 13
20. In the diagram 48. If the squar			48 and the triang ne area, what is t	
48. If the squar	e and the trian	gle have the san	48 (D) 3	(E) 24
48. If the squar  (A) 1.5	e and the trian	gle have the san	48 (D) 3	(E) 24
48. If the squar  (A) 1.5	e and the trian	gle have the san	48 (D) 3	(E) 24
48. If the squar  (A) 1.5	e and the trian	gle have the san	48 (D) 3	(E) 24
48. If the squar  (A) 1.5	e and the trian	gle have the san	48 (D) 3	(E) 24
(A) 1.5	(B) 12	(C) 6	(D) 3 to spell "KARL"	(E) 24
(A) 1.5 21. In the diagram  (A) 4	(B) 12  (B) 16  (C) 16	(C) 6  ths can be taken  (C) 6  consistive whole notes in an ease numbers is as	(D) 3  to spell "KARL"	(E) 24  (E) 14  e difference between
(A) 1.5 21. In the diagram (A) 4	(B) 12  (B) 16  (C) 16	(C) 6  ths can be taken  (C) 6  consistive whole notes in an ease numbers is as	(D) 3 to spell "KARL"  (D) 8	(E) 24  (E) 14  e difference between
(A) 1.5 21. In the diagram (A) 4 22. The average of the largest and average of the expression of the e	(B) 12  (B) 16  four different smallest of the other two numl (B) $2\frac{1}{2}$	(C) 6  ths can be taken  (C) 6  consistive whole not see numbers is as bers? (C) 4	(D) 3  to spell "KARL"  (D) 8  mmbers is 4. If the large as possible (D) 5	(E) 24  (E) 14  e difference between c, what is the (E) 2
(A) 1.5  21. In the diagram  (A) 4  22. The average of the largest and average of the (A) 1 1/2	(B) 12  (B) 16  four different smallest of the other two numl (B) $2\frac{1}{2}$	(C) 6  ths can be taken  (C) 6  consistive whole not see numbers is as bers? (C) 4	(D) 3  to spell "KARL"  (D) 8  mmbers is 4. If the large as possible (D) 5	(E) 24  (E) 14  e difference between c, what is the (E) 2
(A) 1.5  21. In the diagram  (A) 4  22. The average of the largest and average of the (A) 1 1/2	(B) 12  (B) 16  four different smallest of the other two numl (B) $2\frac{1}{2}$	(C) 6  ths can be taken  (C) 6  consistive whole not see numbers is as bers? (C) 4	(D) 3  to spell "KARL"  (D) 8  mmbers is 4. If the large as possible (D) 5	(E) 24  (E) 14  e difference between c, what is the (E) 2

Q

(E) 17

What is the value of P + Q + R?

(A) 20 (B) 13 (D) 16

- 25. The CMC reception desk has a tray in which to stack letters as they arrive.

  Starting at 12:00, the following process repeats every five minutes:

   Step 1 Three letters arrive at the reception desk and are stacked on top of the letters already in the stack. The first of the three is placed on the stack first, the second letter next, and the third letter on top.

   Step 2 The top two letters in the stack are removed.

  This recess repeats until 28 letters have removed.

This process repeats until 36 letters have arrived (and the top two letters have been immediately removed). Once all 36 letters have arrived (and the top two letters have been immediately removed), no more letters arrive and the top two letters in the stack continue to be removed every five minutes until all 36 letters have been removed. At what time was the 13th letter to arrive removed? (A) 1:15 (B) 1:20 (C) 1:10 (D) 1:05 (E) 1:25