## Abel Mathematics Contest

Grades 4 and 5 May, 2007



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## Instructions:

- 1. Calculator permitted.
- 2. Circle the correct answer.
- 3. Transfer your answers to the answer form.
- 4. The time limit for this Abel Math Contest is 30 minutes



•	now many even whole numbers are prime numbers?				
	<b>A.</b> 0	<b>B</b> . 1	<b>C.</b> 2	<b>D.</b> 3	
2. Every one of the following is a factor of 2007 except					
	<b>A.</b> 3	<b>B.</b> 9	<b>C.</b> 12	<b>D.</b> 223	
3	. A whole number is r	multiplied by 16. The p	roduct could <i>never</i> be		
	<b>A.</b> 0	<b>B.</b> 48	<b>C.</b> 72	<b>D.</b> 80	
4.	. 1000 X 100 X 10	X 1 X 0.1 X 0.01 X	× 0.001 =		
	<b>A.</b> 0	<b>B.</b> 0.1	<b>C.</b> 1	<b>D.</b> 10	
5.	. 12:3=20:?		•		
	<b>A.</b> 4	<b>B.</b> 5	<b>C.</b> 6	<b>D.</b> 8	
6.	What is the square o	of 4?	/		
	<b>A.</b> 2	<b>B</b> . 8	<b>C.</b> 16	<b>D.</b> 44	
7.	The tens' digit of a tv	vo-digit number is 5. R	ound this number to t	he nearest hundred.	
	<b>A.</b> 0	<b>B.</b> 50	<b>C.</b> 100	<b>D.</b> 150	
8.	Owen was supposed to meet Janelle at 12:13 P.M.  If Janelle arrived half an hour early, then she arrived at				
	<b>A.</b> 11:43 AM	<b>B.</b> 11:53 AM	<b>C.</b> 11:43 PM	<b>D.</b> 12:43 PM	
9.	What is the mean of	6, 60, and 600?	,		
	<b>A.</b> 666	<b>B.</b> 333	<b>C.</b> 222	<b>D.</b> 111	
10.	Of the following who	le numbers, which has	the fewest number of	f factors?	
	<b>A.</b> 6	<b>B.</b> 9	<b>C.</b> 17	<b>D.</b> 51	

11.	1. In how many different ways can the letters in the word MATH be arranged? (Example: Two possible arrangements are THAM and HATM.)				
	<b>A.</b> 4	<b>B.</b> 6	<b>C.</b> 12	<b>D.</b> 24	
12.	In a circle with a diar	meter of 20, what is the	e length of a radius?	?	
	<b>A.</b> 5	<b>B.</b> 10	<b>C.</b> 20	<b>D.</b> 20π	
13.	The perimeter of a re What is the length?	ectangle is 20. The wid	th of this rectangle is 4	?	
	<b>A.</b> 5	<b>B.</b> 6	<b>C.</b> 16	<b>D.</b> 24	
14.	What is the ones' dig	it in the product of 987	and 789?		
	<b>A.</b> 1	<b>B.</b> 3	<b>C.</b> 7	<b>D.</b> 9	
15.	The number of sides	of a pentagon multiplie	ed by the number of ve	rtices of a hexagon equals	
	<b>A.</b> 10	<b>B.</b> 20	<b>C.</b> 30	<b>D.</b> 40	
16.	How many different re	ectangles does this dia	gram contain?		
	<b>A.</b> 4	<b>B.</b> 5	<b>c.</b> 9	<b>D.</b> 10	
17.	If 5 gargantuas are e	qual to 3 grecos, then	45 grecos are equal to	? gargantuas.	
	<b>A.</b> 27	<b>B.</b> 30	<b>C.</b> 47	<b>D.</b> 75	
18.	How many days prior	as the day the Vancouv to the opening ceremo	ver Olympic Countdow onies of the Olympics (	n Clock started. February 12, 2010)	
	did the clock begin.	•			
	did the clock begin. <b>A.</b> 1094	<b>B.</b> 1095	<b>C.</b> 1096	<b>D.</b> 1097	

19.	Barbara has a box of jellybeans. It contains 24 candies: 10 red, 4 green, 8 black and 2 yello If she reaches in without looking, what is the probability that her first candy will be black.					
	<b>A.</b> 1/12	<b>B.</b> 2/12	<b>C.</b> 4/12	<b>D.</b> 5/12		
20.	A man has 10 sons. Each of these sons has 10 sons.  How many people does that make altogether?					
	<b>A.</b> 21	<b>B.</b> 100	<b>C.</b> 101	<b>D.</b> 111		
21.	0.2 X 0.5 =					
	<b>A.</b> 1	<b>B.</b> 0.1	<b>C.</b> 0.01	<b>D.</b> 0.001		
22	4 om oguala					
ZZ.	4 cm equals	<b>D</b> 40 m	<b>6</b> 0 4 m	D 0.04		
	<b>A.</b> 400m	<b>B.</b> 40m	<b>C.</b> 0.4m	<b>D.</b> 0.04m		
23.	What is the quotient of	of 50% of 10, and 25%	of 100?			
	<b>(A.</b> 5	<b>B.</b> 20	<b>C.</b> 30	<b>D.</b> 125		
24.	What is the next num	ber in this pattern: 13	13 2 24 2 46 , 26, 24, 48, 46, 92	2 <sup>95</sup> , 90,		
	<b>A.</b> 88	<b>B.</b> 118	<b>C.</b> 178	<b>D.</b> 180		
	. ,					
25.	There are twice as many boys as girls in a club. Five boys quit the club, then there was an equal number of boys and girls. How many boys were in the club to begin with?					
	<b>A.</b> 5	<b>B.</b> 10	<b>C.</b> 15	<b>D.</b> 20		
		1	)	•		





13.

## **Abel Math Contest - 2007**

## Time 30 Minutes Calculator Permitted

1.	B	14.	B
2.	C	15.	C
3.	C	16.	C
4.	c	17.	D
5.	B	18.	c
6.	C	19.	C
7.	C	20.	D
8.	A	21.	B
9.	C	22.	D
0.	C	23.	A
	D	24.	D
2.	B	25.	B