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## Clocks & Calendars Practice

### 20 Minutes - (Don't skip any questions)

1)	W	What is the angle included between the hands at 2: 19 p. m.?								
	A.	39.5	В.	42	C.	54	D.	44.5	E.	43
2)	The minute hand is half as long as the hour hand. What is the ratio of the distance travelled be the minute hand in 6 hours and the distance by the hour hand in 1 day?									
		3:4		6: 24		3:1		6:1	E.	1:6
3)	W	hat is the angle	bet	ween the hour	and	the minute har	nds í	15 minutes afte	r 10	: 31?
	A.	110	B.	129.5	C.	130	D.	50	E.	47
4)	What is the difference in the degree measures of the angles formed by the hour hand and the minute hand of a clock at $12:45$ and $5:45$ ?									r hand and the
	A.	17.5	В.	13.5	C.	11	D.	20.5	E.	15
5)		March 14, 2011		•						
	A.	Sunday	В.	Monday	C.	Tuesday	D.	Wednesday	E.	Thursday
6)	What day was it on 5 <sup>th</sup> January 2009? (Calculate using today's day and date)									
٠,		Sunday								Thursday
٦١	14/	h o t do	مطا	an 1 <sup>th</sup> Ionuanu	202	72 (Calaulata us		tada. /a da a.a.	الماما	
/)		hat day would i <i>Sunday</i>								
	,	Surracy	υ.	Monday	С.	Tuesday	٥.	Weattesday		Trui Suu y
8)	What is the difference in the degree measures of the angles formed by the hour hand and the minute hand of a clock at $1:50$ ?									
		90			C.	105	D.	115	E.	120
9)	If the clock gains 1 second per minute, and if the time is exactly 1: 23 now, what would be the time showed by the clock after 45 minutes?									t would be the
		2: 07: 45		2: 08: 45		2: 09: 50	D.	2: 10: 45	Ε.	2: 11: 45

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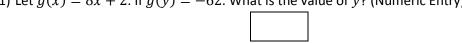


10) Quantitative Comparison:

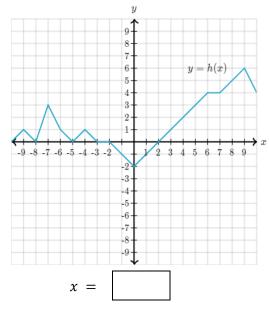
Quantity A	Quantity B
The measure in degrees of the smaller angle	The measure in degrees of the smaller angle
formed by the hour hand and the minute	formed by the hour hand and the minute
hand of a clock at 7:37	hand of a clock at 4:23

- A. A > B B. B > A C. A = B D. Can't be determined

11) Let 
$$g(x) = 8x + 2$$
. If  $g(y) = -62$ . What is the value of  $y$ ? (Numeric Entry)



12) What is the input value other than -7 for which h(x) = 3? (Numeric Entry)



13) For a given input value x, the function f outputs a value y to satisfy the following equation.

$$y + 6 = 5(x - 4)$$

What is the formula for f(z) in terms of z?

- A. z + 6 B. 5z 26 C. 5(z 4) D.  $\frac{z + 6}{5} + 4$  E.  $\frac{z + 10}{5}$

14) Valak is a taxi driver. M(n) models Valak's fee (in dollors) for her  $n^{th}$  drive on a certain day. What does the statement M(8) < M(4) mean? (Select all that apply)

- A. Valak earned \$8 for a drive that was earlier than a drive for which he earned \$4.
- B. Valak earned \$8 for fewer drives than the number of drives for which he earned \$4.
- C. Valak earned less money for her  $8^{th}$  than she earned for her  $4^{th}$  drive.

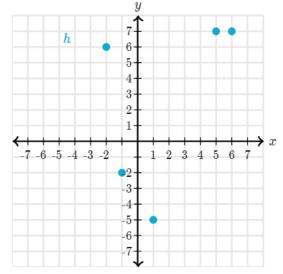
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- 15) Annabelle's class had a math exam where the grades were between 0 and 10. N(g) models the number of students whose grade on the exam was g. What does the statement N(8) > 2N(5) mean? (Select all that apply)
  - A. The number of students whose grade was higher than 5 is greater than the number of students whose grade was 5 or lower.
  - B. The number of students whose grade was 8 more than twice the number of students whose grade was 5.
  - C. There are 8 students whose grade was higher than twice the grade of another group of 5 students.

#### 16) What is the domain of h?



A.  $-5 \le x \le 7$  B.  $\{-5, -2, 6, 7\}$  C.  $-2 \le x \le 6$  D.  $\{-2, -1, 1, 5, 6\}$  E. *None*