Clocks & Calendars Practice

# 20 Minutes – (Don’t skip any questions)

1. What is the angle included between the hands at ?

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1. The minute hand is half as long as the hour hand. What is the ratio of the distance travelled by the minute hand in 6 hours and the distance by the hour hand in 1 day?

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1. What is the angle between the hour and the minute hands minutes after ?

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1. What is the difference in the degree measures of the angles formed by the hour hand and the minute hand of a clock at and ?

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1. If March 14, 2011 is a Monday, what day would it 16th October, 2012 be?

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1. What day was it on 5th January 2009? (Calculate using today’s day and date)

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1. What day would it be on 1th January 2037? (Calculate using today’s day and date)

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1. What is the difference in the degree measures of the angles formed by the hour hand and the minute hand of a clock at ?

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1. If the clock gains 1 second per minute, and if the time is exactly now, what would be the time showed by the clock after 45 minutes?

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1. Quantitative Comparison:

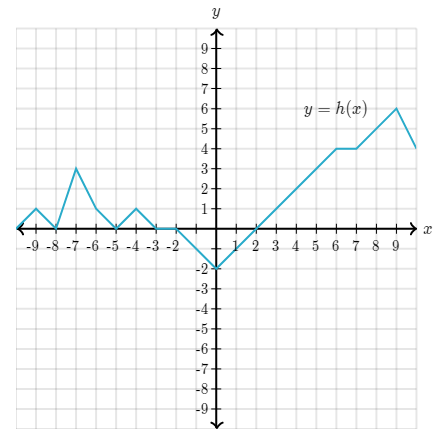
|  |  |
| --- | --- |
| Quantity A | Quantity B |
| The measure in degrees of the smaller angle formed by the hour hand and the minute hand of a clock at 7:37 | The measure in degrees of the smaller angle formed by the hour hand and the minute hand of a clock at 4:23 |

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| 1. A > B | 1. B > A | 1. A = B | 1. Can’t be determined |

1. Let . If . What is the value of ? (Numeric Entry)

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1. What is the input value other than for which ? (Numeric Entry)



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1. For a given input value , the function outputs a value to satisfy the following equation.

What is the formula for in terms of ?

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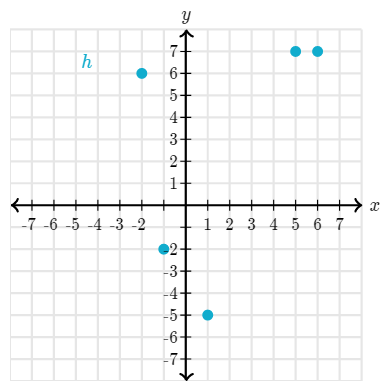
1. Valak is a taxi driver. models Valak’s fee (in dollors) for her drive on a certain day. What does the statement mean? (Select all that apply)

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| 1. Valak earned for a drive that was earlier than a drive for which he earned . |
| 1. Valak earned for fewer drives than the number of drives for which he earned . |
| 1. Valak earned less money for her than she earned for her drive. |

1. Annabelle’s class had a math exam where the grades were between 0 and 10. models the number of students whose grade on the exam was . What does the statement mean? (Select all that apply)

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| 1. The number of students whose grade was higher than 5 is greater than the number of students whose grade was 5 or lower. |
| 1. The number of students whose grade was 8 more than twice the number of students whose grade was 5. |
| 1. There are 8 students whose grade was higher than twice the grade of another group of 5 students. |

1. What is the domain of h?



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