1. **Item Detail for Question 1**

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| **Solution:** |

Sample Correct Response:

Correct Oval: Barbara

Explanation: Barbara’s claim is correct because the solution set to question A is  and the solution set to question B is the set of all real numbers.

 **OR**

 There are values for x , such as  , that satisfy question B, but do not satisfy question A.

 **OR**



Notes:

For Question B: If is a real number, what are all the values of for which?

The answer for Question B when using an inclusive OR is the set of all real numbers (i.e., all numbers that are greater than and also all numbers that are less than 5; this the numbers between and 5).

The answer for Question B when using an exclusive OR is the set of all real numbers that are either greater than or less than 5, of the numbers between and 5 (i.e., exclusive of the numbers which are common to both sets).

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| **Score and Description** |

**Correct -** Correct oval filled in with acceptable explanation

**Partial 1 -** Correct oval filled in with incomplete or partially correct explanation

**Partial 2 -** Neither oval or incorrect oval filled in with acceptable explanation supporting Barbaras claim

**Partial 3 -** Correct oval filled in with explanation that treats the or in Question B as an exclusive or

**Incorrect 1 -** Correct oval filled in with incorrect or no explanation

**Incorrect 2 -** Other incorrect responses

1. **Item Detail for Question 2 -** The correct answer is: D. 90
2. **Item Detail for Question 3 -** The correct answer is:B. 45
3. **Item Detail for Question 4**

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| **Solution:** |

Sample Correct Response:

 Answer:  cm2 or equivalent

Solution:

 The base of the triangle is segment FG with length 8 (given).

The height of the triangle is segment ED , which is the hypotenuse of triangle EBD , an isosceles right triangle with legs of length 3 (the lengths of BE and BD are given).

Using the Pythagorean Theorem,

 

 

 

Therefore,

 Area 

 

 



NOTE: To be acceptable, a solution must indicate the height and show how the area was calculated.

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| **Score and Description** |

**Extended -** Answer of  with acceptable solution

**Satisfactory -** Answer of  with incomplete solution, partially correct solution, no solution, or imprecise notation

**Partial -** Answer is not  , but correct process is used

**Minimal -** Answer of 24 with work showing 

**Incorrect -** Incorrect response

1. **Item Detail for Question 5** - The correct answer is:D. C38 = B38 \* C3 \* F3
2. **Item Detail for Question 6**

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| **Solution:** |

Sample Correct Response:



 OR

  SUM 

 OR

 SUM 

 OR

Mary should add the values in cells C6 through C57.

|  |
| --- |
| **Score and Description** |

**Correct -** Correct formula or description

**Incorrect -** Incorrect response

1. **Item Detail for Question 7 -** The correct answer is:B. 71 inches
2. **Item Detail for Question 8 -** The correct answer is:B. 
3. **Item Detail for Question 9 -** The correct answer is:B. 64
4. **Item Detail for Question 10**

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| **Solution:** |

Sample Correct Response:

Solution:



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| **Score and Description** |

**Satisfactory -** Proof completed correctly

**Partial -** Response shows the induction step, but does not correctly complete proof

**Minimal -** Response only indicates what needs to be proved to complete the proof

**Incorrect -** Incorrect response