**MPS8:3 Summative Scoring Guide**

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 1. |  | X | 3 | N2C | 2 | A | Solve equations with squaring function. (DOK2) |

Answer: 10.5, -10.5

3 points Exemplary response; both positive and negative answer given and rounding are correct

2 points 2 of the above criteria

1 point 1 of the above criteria

0 points none of the above criteria

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 2. |  | X | 2 | G1A | 3 | A | Identify legs, hypotenuse and right angle in a right triangle (DOK3) |

Answer: Legs are 15 in. and 20 in. Hypotenuse is 25 in. Right angle is between 15 in. and 20 in. sides.

2 points Exemplary response; both legs and hypotenuse listed correctly and a 90 degree angle listed correctly.

1 point Either listed legs and hypotenuse correctly or place 90 degree angle correctly, but not both

0 point Neither listing correct

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 3. |  | X | 3 | G1A\* | 3 | B | Solve Pythagorean Theorem equations correctly. (DOK3) |

Answer: 16.0 feet

3 points Exemplary response; correct answer, correct rounding, correct work

2 points 2 of the above criteria

1 point 1 of the above criteria

0 point none of the above criteria

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 4.  |  | X | 3 | G1A\* | 3 | B | Solve Pythagorean Theorem equations correctly (DOK2) |

Answer: 27.9 meters

3 points Exemplary response; correct answer, correct rounding, correct work

2 points 2 of the above criteria

1 point 1 of the above criteria

0 point none of the above criteria

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 5. | C |  | 2 | N1B | 1 | A | Solve problems correctly. (DOK2) |

Answer: A

2 points correct answer, correct work

1 point 2 of the above criteria

0 point none of the above criteria

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 6. |  | X | 3 | G2A | 4 | A | Find the distance between 2 points on a coordinate plane using Pythagorean Theorem. (DOK2) |

Answer: 8.6

3 points correct answer, correct rounding, correct work

2 points two of the above correct

1 point one of the above correct

0 point none of the above correct

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 7. |  | X | 4 | G4B | 5 | A | Draw or use visual models to represent and solve problems using Pythagorean Theorem. (DOK3) |

Answer: 142.1 miles

4 points correct picture, correct work, correct rounding, correct answer

3 points 3 of the above criteria

2 points 2 of the above criteria

1 point 1 of the above criteria

0 points none of the above criteria

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 8. |  | X | 3 | G2A | 4 | A | Find the distance between 2 points on a coordinate plane using Pythagorean Theorem. (DOK2) |

Answer: 8.1

3 points correct answer, correct rounding, correct work

2 points two of the above correct

1 point one of the above correct

0 point none of the above correct

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 9. |  | X | 4 | G4B | 5 | A | Draw or use visual models to represent and solve problems using Pythagorean Theorem. (DOK3) |

Answer: 1.6 miles shorter

4 points correct picture, correct work, correct rounding, correct answer

3 points 3 of the above criteria

2 points 2 of the above criteria

1 point 1 of the above criteria

0 points: none of the above criteria

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 10. | C |  | 2 | N2C | 2 | A | Solve equations with squaring function. (DOK2) |

Answer: C

2 points: correct answer, correct work

1 point: Either correct answer or correct work, but not both

0 points: Neither answer nor work is correct.