**MPS8:2 Pre-Formative Scoring Guide**

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 1. | D |  | 1 | N1A | 3 | A | Order all rational numbers, including percents, from least to greatest and greatest to least(DOK1) |

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 2. | B |  | 1 | N1C | 1 | A | Recognize and create mathematical representations of the same number (written as the product of the same factor and written using a base and an exponent). (DOK2) |

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 3. | A |  | 1 | N1C | 1 | A | Recognize and create mathematical representations of the same number (written as the product of the same factor and written using a base and an exponent). (DOK2) |

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 4. | C |  | 1 | N1C | 2 | A | Change standard numbers to scientific notation (DOK2) |

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 5. | D |  | 1 | N1C | 2 | A | Change standard numbers to scientific notation(DOK2) |

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 6.  | A |  | 1 | N1C | 2 | B | Change numbers from scientific notation back to standard form. (DOK2) |

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 7. | B |  | 1 | N1C | 2 | B | Change numbers from scientific notation back to standard form. (DOK2) |

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 8. | C |  | 1 | N1B | 4 | B | Round decimals correctly.(DOK2) |

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 9. |  | x | 2 | N1B | 4 | A | Solve problems correctly. (DOK2) |

Correct answer: 6 3/8 (six and three eighths)

2 points Exemplary response; correct answer and correct work

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.  |  | X | 2 | N1B | 4 | C | Use fractions, decimals and percents to solve problems (DOK2) |

Correct answer: 6 ¾ cups

2 points Exemplary response; correct answer and correct work

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 |
| 11.  |  | X | 3 | N1B | 4 | C | Use fractions, decimals and percents to solve problems (DOK2) |

Answer: 12/15 = 4/5 = 0.8 = 80%

3 points Exemplary response; correct fraction in simplest form, correct decimal, correct percent

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 |
| 12. |  | X | 3 | N2C | 5 | A | Use inverse operations correctly (DOK2) |

Answer: Multiply both sides of the equation by –(5/2). This is using the multiplicative inverse of –(2/5) to create a “1” when they’re multiplied together. By multiplying 14 by –(5/2) you get your answer of – 35.

3 points Exemplary response; correct answer, inverse of -(5/2) used, correct explanation

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 |
| 13. | A |  | 1 | A2B | 6 | A | Solve algebraic equations containing rational numbers. DOK2) |

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| ITEM# | SR | CR  | PT | GLE | OBJ | EXP | DESCRIPTOR |
| 14. |  | x |  | A2B | 6 | A | Solve algebraic equations containing rational numbers. DOK2) |

Answer: 0.24 x = 32.5

 X = 135.42 revolutions

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

2 point 2 of the above criteria

1 point 1 of the above criteria

0 points none of the above criteria