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| Question | 0 points | ¼ point | ½ point | ¾ point | 1 point |
| 1 | Shows little to no understanding of standard form | Understood standard form but made more than one error | Understood standard form but made slight error |  | Correct answer |
| 2 | Made several errors |  | Made two small errors | Made one error (e.g. missing comma) | Correct answer |
| 3 | Incorrect place value |  | Incorrectly spelled place value with –ths at the end |  | Correct answer |
| 4 | Shows little to no understanding of expanded form |  | Didn’t clearly understand expanded form (e.g. wrote 51 instead of 50+1) | Made one small error (e.g. no + signs) | Correct answer |
| 5 | Both answers incorrectly rounded | Both answers were rounded properly, but to wrong place value | 1 out of 2 answers correct |  | 2 correct answers |
| 6 | Multiple errors led to wrong answer |  | One small error led to wrong answer |  | Correct answer |
| 7 | Did not subtract | Subtracted, but multiple mistakes led to incorrect answer |  | Made one small error while subtracting that led to incorrect answer | Correct answer |
| 8 | Multiple errors led to wrong answer |  | One small error led to wrong answer |  | Correct answer |
| 9 | Did not divide | Divided, but showed little understanding of how to divide |  | Made one small error while dividing that led to incorrect answer | Correct answer |
| 10 | Did not understand how to solve problem |  | Appropriate operations, but made 2 mistakes | Appropriate operations, but made 1 mistake | Correct answer |
| 11 | Made more than one error |  | Made one error in order of operations | Made one small error unrelated to order of operations | Correct answer |
| 12 | Incorrect answer | Showed some understanding of prime factorizations, but answer doesn’t = 128 | Answer = 128 but has composite numbers in it | Answer = 128 with all primes, but didn’t express in proper exponential notation | Correct answer |
| 13 | Showed little to no understanding of how to write as mixed number | Knew to divide, but misplaced parts of mixed number | Understood process, but made division/subtraction error |  | Correct answer |
| 14 | Did not divide by any common factor | Showed correct process, but made division error | Answer reduced, but not fully |  | Answer in simplest form |
| 15 | Did not convert to improper fractions | Attempted to convert to improper fractions, but made 2+ mistakes | Attempted to convert to improper fractions, but made 1 mistake multiplying or converting | Correct answer, but not simplified or not mixed number | Correct answer as fully reduced mixed number |
| 16 | Did not clearly attempt to multiply by reciprocal |  | Attempted to multiply by reciprocal, but made error multiplying or reducing | Correct answer, but not simplified | Correct answer fully simplified |
| 17 | Incorrect answer because of more than 1 error |  | Made 1 mistake adding, but all other processes correct | Correct fraction, but not in proper mixed number form | Correct answer in proper mixed number form |
| 18 | Did not find common denominator | Found common denominator, but made 2+ arithmetic mistakes | Found common denominator, but made 1 arithmetic mistake | Correct fraction, not fully simplified | Correct answer fully simplified |
| 19 | Did not subtract in proper order | Understood process, but made 2+ errors | Made 1 error either subtracting or changing mixed numbers | Correct mixed number, but fraction not simplified | Correct answer, fully simplified |
| 20 | Did not clearly attempt to raise numerator and denominator to exponent |  | Attempted to properly raise to exponent, but incorrectly simplified an exponent |  | Correct answer |
| 21 | Incorrect order of operations or 2+ arithmetic errors |  | Correct order of operations with 1 arithmetic error | Correct answer, fully simplified | Correct answer |
| 22 | Incorrect answer with no attempt to rewrite with LCD |  | Clear attempt at rewriting fractions with LCD, but incorrect answer |  | Correct order |
| 23 | Did not attempt to divide | Attempted operation of division, but improperly | Understood division, but did so in backwards order | Understood division in correct order, but made one arithmetic error | Correct answer |
| 24 | Did not attempt to add then subtract | Understood all proper operations, but made 2+ mistakes | Understood all proper operations, but made one arithmetic mistake | Correct answer not fully simplified | Correct answer fully simplified |
| 25 | 3 or more mistakes in word form |  | 2 mistakes in word form | Mostly correct, but 1 small error such as incorrect spelling | Correct answer |
| 26 | Incorrect denominator or other significant mistake |  | Correct fraction, but not fully reduced or improperly reduced |  | Correct answer fully simplified |
| 27 | Incorrect answer |  |  |  | Correct answer |
| 28 | Incorrect decimal alignment or 2+ arithmetic errors led to incorrect answer |  | 1 arithmetic error led to wrong answer |  | Correct answer |
| 29 | Subtracted in wrong order or did not add 0’s to first number | Subtracted in correct order and added 0’s, but made 2+ arithmetic errors | Subtracted in correct order and added 0’s, but made 1 arithmetic error |  | Correct answer |
| 30 | Incorrect answer by more than one place value |  | Answer off by one decimal place value |  | Correct answer |
| 31 | Made significant error such as not moving decimal point in divisor | Showed little understanding of dividing decimals | Showed some understanding of dividing decimals | Made error such as not using bar to indicate repeating decimal | Correct answer |
| 32 | Both answers incorrect |  | 1 out of 2 answers correct | Correct decimal, correct fraction but not fully simplified | Both answers correct |
| 33 | Incorrect answer |  |  |  | Correct answer |
| 34 | Did not attempt to multiply | Understood operation of mult. but did not convert % to decimal |  | Attempted to multiply number by decimal form of %, but made one arithmetic error | Correct answer |