Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **TASC Math Skills Diagnostic** Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Directions**: Perform computations on scrap paper. Calculators may NOT be used.

1. 0.56 written as a fraction is = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Circle the greatest of the three numbers below

0.3 or 0.1745 or 0.244

1. 2.32 + 4.7 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 6.4 – 2.74 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. 3.45 × 3.2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. 2.88 ÷ 1.2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. 47.3469 to the nearest tenth is \_\_\_\_\_\_\_\_\_\_\_\_\_
6. Reduce to lowest terms
7. Fill in the bank
8. Fill in the blank =
9. Put the following fractions in order from least to greatest: , , , ,
10. Put the following fractions in order from least to greatest: , , , ,
11. as a mixed number is = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
12. as an improper fraction is = \_\_\_\_\_\_\_\_\_\_\_\_
13. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
14. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
15. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
16. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
17. as a decimal is = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
18. 0.17 as a percent is = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
19. as a percent is= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
20. 30% of 70 is = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
21. 9 is \_\_\_\_\_\_\_\_\_% of 36
22. 6 is 20% of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
23. -3 + 5 – 9 + -2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
24. 7 × -4 ÷ 2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
25. 7 × -4 ÷ -2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
26. 200 ÷ 4 – 3 × 2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
27. 53 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
28. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
29. lies between the two consecutive

integers \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_

1. = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 4-2 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. (33 ×33)5 = 3 to the \_\_\_\_\_\_\_\_\_\_ power? (3?)
4. in simplest radical form is = \_\_\_\_\_\_\_\_
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Simplify, i8 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**TASC Math Skills Diagnostic Score Sheet and Khan Academy Aligned Tasks**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Khan Academy Aligned Task** | **Correct** | **Incorrect** | **Notes** |
| 1 | Converting decimals to fractions 1 |  |  |  |
| 2 | Ordering decimals |  |  |  |
| 3 | Adding decimals 2 |  |  |  |
| 4 | Subtracting decimals 2 |  |  |  |
| 5 | Multiplying decimals 2 |  |  |  |
| 6 | Dividing decimals 3 |  |  |  |
| 7 | Rounding numbers |  |  |  |
| 8 | Adding fractions with unlike denominators |  |  |  |
| 9 | Equivalent fractions 2 |  |  |  |
| 10 | Proportions 1 |  |  |  |
| 11 | Ordering fractions |  |  |  |
| 12 | Ordering fractions |  |  |  |
| 13 | Converting mixed numbers and improper fractions |  |  |  |
| 14 | Converting mixed numbers and improper fractions |  |  |  |
| 15 | Adding fractions with unlike denominators |  |  |  |
| 16 | Dividing positive fractions |  |  |  |
| 17 | Adding and subtracting mixed numbers with like denominators |  |  |  |
| 18 | Multiplying mixed numbers |  |  |  |
| 19 | Converting fractions to decimals |  |  |  |
| 20 | Converting decimals to percents |  |  |  |
| 21 | Converting percent to decimal and fraction (video) |  |  |  |
| 22 | Finding percents |  |  |  |
| 23 | Finding percents |  |  |  |
| 24 | Finding percents |  |  |  |
| 25 | Adding and subtracting negative numbers |  |  |  |
| 26 | Multiplying and dividing negative numbers |  |  |  |
| 27 | Multiplying and dividing negative numbers |  |  |  |
| 28 | Order of operations |  |  |  |
| 29 | Positive and zero exponents |  |  |  |
| 30 | Square roots of perfect squares |  |  |  |
| 31 | Estimating square roots |  |  |  |
| 32 | Cube roots |  |  |  |
| 33 | Positive and negative exponents |  |  |  |
| 34 | Properties of exponents |  |  |  |
| 35 | Simplifying square roots |  |  |  |
| 36 | Evaluating logarithms |  |  |  |
| 37 | Imaginary unit powers |  |  |  |

Total = / 37 = /100

**Answer Key: TASC Math Skills Diagnostic**

1. or or

0.3 or 0.1745 or 0.244

1. 7.02
2. 3.66
3. 11.04
4. 2.4
5. 47.3
6. =
8. OR
10. OR
11. 0.6
12. 17%
13. 80%
14. 21
15. 25%
16. 30
17. -9
18. -14
19. 14
20. 44
21. 125
22. 8
23. 6 and 7
24. 3
25. 30th power (which is 330)
26. 4
27. 1