Zeta Placement Test

Rewrite each number without an exponent.

3.
$$10^3 =$$

Write in decimal notation.

4.
$$5 \times 10^3 + 2 \times 10^2 + 7 \times 10^1 + 1 \times 10^0 + 3 \times \frac{1}{10^1} + 4 \times \frac{1}{10^2} + 9 \times \frac{1}{10^3} =$$

Add or subtract the decimal numbers.

Multiply the decimal numbers.

Convert using whatever method you prefer.

Write each percentage as a decimal.

Write each percentage as a reduced fraction.

Change each fraction to a decimal and then to a percentage. Include a fraction in one hundredths place if needed and do not round.

17.
$$\frac{8}{10} =$$
____ = ___ % 18. $\frac{5}{6} =$ ___ = ___ %

18.
$$\frac{5}{6} =$$
_____= _\%

Write the mixed number as a percentage and as a decimal.

19.
$$4\frac{3}{5} = \frac{100}{100} + \frac{100}{100} = \frac{100}{100} =$$

Change each decimal to a reduced fraction.

Divide to the thousandths place and round to the nearest hundredth.

Divide until you see a pattern and write the answer with a line over the repeat.

Divide to the hundredths place. Include a fraction in your answer if there is still a remainder.

Solve for the unknown. Check your answer by using it in the original problem.

28.
$$3.2X + 0.07 = 4.55$$

Fill in the blanks.

- 30. A has infinite length and width and is said to be two-dimensional.
- 31. A _____ has two endpoints.
- 32. A _____ has no length or width.
- 33. A line has ______ but no _____ .
- 34. A _____ has one endpoint.
- 35. An angle with a measure less than 180° but greater than 90° is a(n) _____ angle.
- 36. An angle with a measure less than 90° but greater than 0° is a(n) _____ angle.
- 37. Two figures that are the same shape but different sizes are said to be _____.
- 38. There are _____degrees in a circle.
- 39. The measure of a right angle is ______.
- 40. An angle with a measure of 180° is a(n) _____ angle.
- 41. Two shapes that are exactly the same are said to be ______.

- 42. Find the approximate area and circumference of a circle that has a radius of three feet.
- 43. Judith received the following amounts of money for doing chores: \$5, \$7, \$3.50, \$5, and \$8. Give the mean, median, and mode for her earnings.
- 44. Melanie ordered books from a catalog. The prices of the books added up to \$45.60. She had to pay a 6% tax and 8% for shipping. What was the total cost of her order?
- 45. Brandon entered a contest for free math materials. 758 people each put in one entry, and there will be only one winner. What is the probability of Brandon winning the contest?

