Name(s)_____

Evaluate.

1) 10^5

2) $\left(\dfrac{1}{5}\right)^2$

Simplify the expression.

3) $(3 - 2)(5 + 2) + 5^3$

4) $\left(\dfrac{5}{7}\right)^2 + 1^2$

5) $\dfrac{5}{4} \cdot \dfrac{1}{3} + \dfrac{4}{5} \cdot \dfrac{1}{2}$

6) $|-17| + |24 + 22|$

7) $\dfrac{20 + (4)(3)}{2[16 \div (4 + 4)]}$

Evaluate the expression when
x = 2, y = 1, and z = 4.

8) $\dfrac{y}{3x}$

9) $|7z - 4y|$

Evaluate the expression for the given
replacement values.

10) $\dfrac{8x - 7y}{7}$ x = 10, y = 5

Decide whether the given number is a solution
of the given equation.

11) $7x + 9 = 53; \ 6$

12) $\dfrac{1}{5}x = 6; \ 30$

Write the phrase as an algebraic expression. Let
x represent the unknown number.

13) Four subtracted from a number

14) The ratio of a number and 9

15) Twice a number, increased by 78

16) The difference of ten and one is
greater than six.

17) Three subtracted from a number is
zero.

18) Eleven subtracted from eight times a
number is 125.

19) Ten added to eight times a number is
38.

1) 100,000

2) $\dfrac{1}{25}$

3) 132

4) $\dfrac{25}{49}$

5) $\dfrac{49}{60}$

6) 63

7) 8

8) $\dfrac{1}{6}$

9) 24

10) $\dfrac{45}{7}$

11) not a solution

12) solution

13) x – 4

14) $\dfrac{x}{9}$

15) 2x + 78

16) 10 – 1 > 6

17) x – 3 = 0

18) 8x – 11 = 125

19) 8x + 10 = 38