Order of Operations Practice Test

Name:_____ Class: _____ Date:_____

Part 1 – Solve the following problems. __/8

A) $18 \div (-6) \times 2$

= -3 x 2

= -6

B) $(+7)(4) - (+5)$

= 28 - 5

= 23

C) $\mathbf{36 - 5 \times 3}$

= 36 – 15

= 21

D) $\mathbf{2 - (-3)^2}$

= 2 - 9

= -7

Part 2 – Solve the following problems. __/25

A) $\mathbf{\sqrt{100} \times \sqrt{64} \div \left(\sqrt{4} \times 4\right)}$

= 10 x 8 ÷ (2 x 4)

= 10 x 8 ÷ 8

= 80 ÷ 8

= 10

B) $\mathbf{10(30 - 9) \div (7 + 3)}$

= 10(21) ÷ (10)

= 210 ÷ 10

= 21

C) $\mathbf{(25 \times 2 \div 10)^2 + \left(\sqrt{49} - 7\right)}$

= $(50 \div 10)^2 + (7 - 7)$

= $(5)^2 + 0$

= 25

D) $\mathbf{(6^2 - \sqrt{36}) \div 3(10 - 2^3) + 4^2}$

= (36 – 6) ÷ 3(10 – 8) + 16

= 30 ÷ 3(2) + 16

= 30 ÷ 6 + 16

= 5 +16

= 21

Part 3 – Solve the following problems. __/24

A) $(\mathbf{2^4 \div \sqrt{16} \times \sqrt{25}) + 2(\sqrt{64}) - 5 \times (5 - 2)}$

$= (16 \div 4 \text{ x } 5) + 2(8) - 5 \text{ x } (3)$

$= (4 \text{ x } 5) + 16 - 15$

$= 20 + 16 - 15$

$= 36 - 15$

$= 21$

B) $\mathbf{37 + 4(3) \times \left(\frac{1}{2} + \frac{1}{2}\right) \div \left(\sqrt{64} + 8 \div 2\right) - 2^3}$

$= 37 + 12 \text{ x } 1 \div (8 + 4) - 8$

$= 37 + 12 \div (12) - 8$

$= 37 + 1 - 8$

$= 38 - 8$

$= 30$

C) $\left(\left(\sqrt{81} + 3\right) \text{ x } \left(\frac{1}{4} + \frac{1}{3}\right)\right)^2 - (10 - (\sqrt{9}))^2$

$= \left((9 + 3) \text{ x } \left(\frac{3}{12} + \frac{4}{12}\right)\right)^2 - (10 - 3)^2$

$= \left((12) \text{ x } \left(\frac{7}{12}\right)\right)^2 - (7)^2$

$= (7)^2 - (7\text{x}7)$

$= (7 \text{ x } 7) - 49$

$= 49 - 49$

$= 0$

Part 4 – Create your own 5-step equation to equal the number below. ___/5
(Use minimum one bracket and one exponent)! Be creative! ☺

64 = _____