NTI Day 2, Grade 8 Math

Solving Using the Laws of Exponents Name:

Solve each problem using the laws of exponents.

1) $3^3 \times 3^4 =$ 3^{3+4} $= 3^7$

2) $3^{-4} \times 3^2 =$ _____ $=$ _____

3) $(\frac{1}{3})^3 =$ _____ $=$ _____

4) $2^{-4} =$ _____ $=$ _____

5) $2^0 =$ _____ $=$ _____

6) $3^3 \times 3^{-2} =$ _____ $=$ _____

7) $3^1 =$ _____ $=$ _____

8) $(2^2)^4 =$ _____ $=$ _____

9) $(2 \times 3)^2 =$ _____ $=$ _____

10) $2^3 \times 2^2 =$ _____ $=$ _____

Answers

1. $3^7 = 2,187$
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

1-10	90	80	70	60	50	40	30	20	10	0

Comparing Integers (A)

Compare the pairs of integers using <, >, or =

-2 ☐ -9	9 ☐ 8	-7 ☐ -4	-2 ☐ 6
-3 ☐ 9	1 ☐ -8	4 ☐ -3	-5 ☐ -2
8 ☐ -4	-1 ☐ -7	3 ☐ -4	4 ☐ 7
0 ☐ -5	-1 ☐ 2	-1 ☐ 7	-1 ☐ 0
-2 ☐ 7	-8 ☐ 0	-6 ☐ -2	-7 ☐ 8
-9 ☐ 6	-7 ☐ -5	1 ☐ -6	-2 ☐ 4
4 ☐ 1	9 ☐ 0	-3 ☐ 4	-3 ☐ 8
1 ☐ -5	-9 ☐ -1	8 ☐ -6	1 ☐ 4
8 ☐ 5	-6 ☐ 2	-5 ☐ -6	7 ☐ 8
-1 ☐ 7	-4 ☐ 7	-9 ☐ 5	9 ☐ 4