Name : _____ No. _____

Worksheet 4.5 Unit 4 Review

A. For problems 1 – 6, match the problem with its equivalent.

1. $(-12)^4$	A. $12\times12\times12\times12$
2. -12^4	B. $-12\times12\times12\times12$
3. 12^4	C. $(-12)\times(-12)\times(-12)\times(-12)$
4. 6^5	D. $-6\times6\times6\times6\times6$
5. -6^5	E. $6\times6\times6\times6\times6$
6. $(-6)^5$	F. $(-6)\times(-6)\times(-6)\times(-6)\times(-6)$

B. Simplify your answer with no nefgative exponents.

1) 3^{-4} = _____

2) 2^{-3} = _____

3) 7^0 =

4) 2^{-1} = _____

5) $8m^3n^{-1}$ = _____

6) $3x^{-3}$ = _____

7) $7x^{-2}$ = _____

8) $5mn^{-2}$ = _____

9) $\dfrac{3y^0}{8x^3y^0}$ = _____

10) $\dfrac{5x^2y^{-4}}{x}$ = _____

11) $\dfrac{6v^2}{6u^{-3}}$ = _____

12) $\dfrac{4x^2y^{-3}}{4x^3y^2}$ = _____

13) $(6x^{-1})^2$ = _____

14) $(3x)^{-1}$ = _____

15) $(7uv^{-3})^4$ = _____

16) $(5a^{-2}b^{-4})^0$ =

17) $4mn^{-1} \cdot 5mn$ =

18) $8a^{-1} \cdot 8ab^0 \cdot b$ =

19) $8x^{-4}y^{-3} \cdot 5x^{-4}$ = _____

20) $7x^{-4}y^4 \cdot 5y^{-2}$ = _____