Name : _____

Expanded Form & Exponential Form

T1S2

A) Express each of the following in expanded form.

1) 3^4 = _____

2) $\left(\frac{8}{5}\right)^6$ = _____

3) $\left(-\frac{3}{4}\right)^7$ = _____

4) $(1.7)^8$ = _____

5) $(-5)^2$ = _____

6) $\left(-\frac{2}{7}\right)^3$ = _____

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B) Express each of the fol

1) $(-8) \cdot (-8) \cdot (-8)$ _____

2) $\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ _____

3) $\left(-\frac{9}{8}\right) \cdot \left(-\frac{9}{8}\right) \cdot \left(-\frac{9}{8}\right)$ _____

4) $4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4$ = _____

5) $(-10) \cdot (-10) \cdot (-10)$ = _____

6) $(-6.5) \cdot (-6.5)$ = _____

Name : _____

Answer key

T1S2

Expanded Form & Exponential Form

A) Express each of the following in expanded form.

1) 3^4 = $3 \cdot 3 \cdot 3 \cdot 3$

2) $\left(\frac{8}{5}\right)^6$ = $\frac{8}{5} \cdot \frac{8}{5} \cdot \frac{8}{5} \cdot \frac{8}{5} \cdot \frac{8}{5} \cdot \frac{8}{5}$

3) $\left(-\frac{3}{4}\right)^7$ = $\left(-\frac{3}{4}\right) \cdot \left(-\frac{3}{4}\right) \cdot \left(-\frac{3}{4}\right) \cdot \left(-\frac{3}{4}\right) \cdot \left(-\frac{3}{4}\right) \cdot \left(-\frac{3}{4}\right) \cdot \left(-\frac{3}{4}\right)$

4) $(1.7)^8$ = $(1.7) \cdot (1.7) \cdot (1.7) \cdot (1.7) \cdot (1.7) \cdot (1.7) \cdot (1.7) \cdot (1.7)$

5) $(-5)^2$ =

6) $\left(-\frac{2}{7}\right)^3$ =

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B) Express each of the fol

1) $(-8) \cdot (-8) \cdot (-8)$ = $(-8)^5$

2) $\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$ = $\left(\frac{1}{2}\right)^9$

3) $\left(-\frac{9}{8}\right) \cdot \left(-\frac{9}{8}\right) \cdot \left(-\frac{9}{8}\right)$ = $\left(-\frac{9}{8}\right)^6$

4) $4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4$ = 4^8

5) $(-10) \cdot (-10) \cdot (-10)$ = $(-10)^3$

6) $(-6.5) \cdot (-6.5)$ = $(-6.5)^2$