Homework

Activity 1

Rewrite the following using exponents.

Model

$4 \cdot 10 \cdot 10 \cdot 10$ $4 \cdot 10^3$

1. $7 \cdot 7 \cdot 7 \cdot 7$
2. $10 \cdot 2 \cdot 2 \cdot 2 \cdot 2$
3. $8 \cdot 9 \cdot 9 \cdot 9 \cdot 9 \cdot 9$
4. $68 \cdot 10 \cdot 10 \cdot 10$

Activity 2

Multiply the powers.

Model

$10^2 \cdot 10^3$ 10^5

1. $2^4 \cdot 2^6$
2. $3^2 \cdot 3^2$
3. $10 \cdot 10^4$
4. $7^2 \cdot 7^2$

Activity 3

Find the least common multiple (LCM) for the pairs of numbers in each problem.

1. What is the least common multiple of 4 and 2?

4	4	8	12	16	20	24	28	32	36	40
2	2	4	6	8	10	12	14	16	18	20

2. What is the least common multiple of 7 and 6?

7	7	14	21	28	35	42	49	56	63	70
6	6	12	18	24	30	36	42	48	54	60

3. What is the least common multiple of 6 and 9?

6	6	12	18	24	30	36	42	48	54	60
9	9	18	27	36	45	54	63	72	81	90

4. What is the least common multiple of 8 and 12?

8	8	16	24	32	40	48	56	64	72	80
12	12	24	36	48	60	72	84	96	108	120

5. What is the least common multiple of 6 and 8?

6	6	12	18	24	30	36	42	48	54	60
8	8	16	24	32	40	48	56	64	72	80

Activity 4 • Distributed Practice

Solve.

1. $\begin{array}{r} 7{,}897 \\ -\ 5{,}299 \\ \hline \end{array}$
2. $\begin{array}{r} 4{,}892 \\ +\ 6{,}218 \\ \hline \end{array}$
3. $\begin{array}{r} 53 \\ \times\ 69 \\ \hline \end{array}$
4. $3\overline{)303}$

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