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Ch1: Whole Numbers and Patterns

1-1: Comparing and Ordering Whole Numbers

Ex1) Belize's 2000 population was 249,183 people. Iceland's 2000 population was 276,365 people. Which country had more people?

Student Practice)

Delaware and Rhode Island are the two smallest states. Delaware covers 1,955 square miles, and Rhode Island covers 1,045 square miles. What is the smallest state in the United States?

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Ex2) Order the numbers from least to greatest: 675; 1,044; 497

Student Practice)

a) Compare. Write $>$, $<$, or equal to .

$>$ (greater than)

$<$ (less than)

69 96

b) Order the numbers from least to greatest. 58; 166; 85

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1-2: Estimating with Whole Numbers

Ex1) Estimate the sum by rounding to the place value indicated.

$$12,345 + 62,167 ; \textit{ ten thousands}$$

Student Practice) Estimate the difference by rounding to the place value indicated.

$$4,983 - 2,447 ; \textit{ thousands}$$

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Ex2) Chelsea is planning the annual softball banquet for the 8 teams in the region. Each team has 18 members. Estimate how many plates she will need to buy if all the members attend.

Student Practice) Nolin is planning the annual WRMS hotdog eating contest for 6th, 7th, and 8th graders. Each grade has 9 contestants. Estimate how many plates he will need to buy if all the contestants attend.

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1-3: Exponents

Ex1) Write the expression in exponential form.

a) $5 \times 5 \times 5 \times 5$

Student Practice) Write each expression in exponential form.

a) $3 \times 3 \times 3 \times 3 \times 3$

b) $6 \times 6 \times 6 \times 6 \times 6 \times 6 \times 6$

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a) 2^6

b) 4^5

Student Practice)

a) 3^3

b) 4^2

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1-4: Order of Operations

Ex1) Evaluate each expression

a) $15 - 10 \div 2$

b) $9 + (21 \div 7) \times 5$

Student Practice) Evaluate each expression

a) $15 - 10 \div 2$

b) $9 + (21 \div 7) \times 5$

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Ex2) Evaluate each expression

a) $3^2 + 6 \times 2$

Student Practice)

a) $3^2 - 2 \times 2$

b) $3^2 + 6 \times 2$

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1-5: Mental Math

Ex1) Evaluate

a) $17 + 5 + 3 + 15$

Student Practice)

a) $12 + 3 + 8 + 7$

b) $4 + 13 + 5$

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Ex2) Use the Distributive Property to find each product.

a) 6×35

b) 4×65

Student Practice)

a) 8×35

b) 9×87

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Properties)

a) Associative Property

$$22 + 62 + 18 + 8$$

$$22 + 62 + 18 + 8$$

$$22 + 62 + 18 + 8$$

b) Commutative Property

$$22 + 62 + 18 + 8$$

c) Distributive Property

$$5 \times 28 \quad \text{or} \quad 5 \times (20 + 8)$$

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1-7: Patterns and Sequences

Ex1) identify a pattern in each sequence and then find the missing terms.

a) .

Position	1	2	3	4	5	6
Value of Term	9	22	35	48		

Student Practice)

a) Find the next three values in the following sequence

48, 42, 36, 30, ? ...

b) .

Position	1	2	3	4	5	6
Value of Term	14	25	36	57		

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Ex2) identify a pattern in each sequence and then find the missing terms.

a) Find the next three values in the following sequence

24, 34, 31, 41, 38, 48, ? ...

b) .

Position	1	2	3	4	5	6	7
Value of Term	1	4	2	8		16	

Student Practice)

a) .

Position	1	2	3	4	5	6	7
Value of Term	1	8	4	32		128	