

## Whole Numbers and Patterns

## Review 1.2 / Using Whole Numbers

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1.2.1 Order of Operations

Evaluate each expression.

1.  $9 + 27 \div 3$

2.  $2 \times 7 - 32 \div 8$

3.  $45 \div (3 + 6) \times 3$

4.  $(6 + 2) \times 4$

5.  $9 \div 3 + 6 \times 2$

6.  $5 + 3 \times 2 + 12 \div 4$

7.  $4^2 + 48 \div (10 - 4)$

8.  $100 \div 5^2 + 7 \times 3$

9.  $6 \times 2^2 + 28 - 5$

10.  $6^2 - 12 \div 3 + (15 - 7)$

11.  $21 \div (3 + 4) \times 9 - 2^3$

12.  $(3^2 + 6 \div 2) \times (36 \div 6 - 4)$

13. The nature park has a pride of 5 adult lions and 3 cubs. The adults eat 8 lb of meat each day and the cubs eat 4 lb. Evaluate  $5 \times 8 + 3 \times 4$  to find the amount of meat consumed each day by the lions.

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14. Angie read 4 books that were each 150 pages long and 2 books that were each 325 pages long. Evaluate  $4 \times 150 + 2 \times 325$  to find the total number of pages Angie read.

1.2.2 Properties and Reasoning Methods

Evaluate.

15.  $15 + 17 + 3 + 5$

16.  $14 + 7 + 16 + 13$

17.  $6 + 21 + 14 + 9$

18.  $5 \times 25 \times 2$

19.  $2 \times 32 \times 10$

20.  $6 \times 12 \times 5$

Use the Distributive Property to find each product.

21.  $3 \times 36$

22.  $4 \times 42$

23.  $6 \times 71$

24.  $2 \times 94$

25.  $6 \times 23$

26.  $5 \times 25$

27.  $6 \times 62$

28.  $7 \times 21$

29.  $8 \times 41$

30.  $2 \times 94$

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1.2.3 Choose the Method of Computation

Choose a solution method and solve. Explain your choice.

For 31 and 32, use the diagram at right.

31. The highest score is a total of all the squares on the board. What is that score?

|    |    |   |
|----|----|---|
| 6  | 9  | 5 |
| 10 | 20 | 8 |
| 3  | 7  | 4 |

32. What score is higher, the total of the squares in the middle row or middle column?

33. If each store in a chain of 108 furniture stores sells 135 sofas a year, what is the total number of sofas sold?

1.2.4 Patterns and Sequences

Identify a pattern in each arithmetic sequence and then find the missing terms.

34. 9, 19, 29, 39, 49, ■, ■, ■, ...

35. 98, 84, 70, 56, 42, ■, ■, ■, ...

36.

|               |    |    |    |    |   |   |
|---------------|----|----|----|----|---|---|
| Position      | 1  | 2  | 3  | 4  | 5 | 6 |
| Value of Term | 45 | 38 | 31 | 24 | ■ | ■ |

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37.

|               |   |    |    |    |   |   |
|---------------|---|----|----|----|---|---|
| Position      | 1 | 2  | 3  | 4  | 5 | 6 |
| Value of Term | 8 | 11 | 14 | 17 | ■ | ■ |

Identify a pattern in each sequence. Name the missing terms.

38. 50, 40, 43, 33, ■, 26, ■, ...

39. 7, 28, 24, 45, ■, ■, ■, ...

40.

|               |     |    |     |    |   |   |     |
|---------------|-----|----|-----|----|---|---|-----|
| Position      | 1   | 2  | 3   | 4  | 5 | 6 | 7   |
| Value of Term | 120 | 60 | 180 | 90 | ■ | ■ | 405 |

41.

|               |     |     |     |    |   |   |    |
|---------------|-----|-----|-----|----|---|---|----|
| Position      | 1   | 2   | 3   | 4  | 5 | 6 | 7  |
| Value of Term | 400 | 100 | 200 | 50 | ■ | ■ | 50 |