

# Worksheet 1.7

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*Factorizations.*

*Find all the factors of the number. See examples on page 61 in text.*

1. 30

- A) 5, 6, 10, 30                      B) 1, 2, 3, 5, 6, 10, 15, 30  
C) 1, 5, 6, 30                        D) 1, 2, 3, 5, 6, 10, 20, 30

*Multiply by 1, 2, 3, and so on, to find ten multiples of the number. See examples on page 62 in text.*

2. 8

- A) 0, 8, 16, 24, 32, 40, 48, 56, 64, 72                      B) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10  
C) 8, 16, 24, 32, 40, 48, 56, 64, 72, 80                      D) 8, 9, 10, 11, 12, 13, 14, 15, 16, 17

*Determine whether the first number is divisible by the second number. See examples on page 62 in text.*

3. 819; 9

- A) Yes                      B) No

4. 348; 21

- A) Yes                      B) No

*Determine whether the number is prime composite or neither. See examples on page 63 in text.*

5. 19

- A) Prime                      B) Composite                      C) Neither

6. 100

- A) Prime            B) Composite            C) Neither

*Find the prime factorization of the number. See examples on pages 63-64 in text.*

7. 63

- A)  $3 \cdot 3 \cdot 7$             B)  $9 \cdot 3$             C)  $7 \cdot 7$             D)  $9 \cdot 7$

8. 126

- A)  $2 \cdot 3 \cdot 3 \cdot 7$             B)  $14 \cdot 3 \cdot 3$             C)  $2 \cdot 3 \cdot 7$             D)  $2 \cdot 2 \cdot 3 \cdot 3 \cdot 7$

*Write a related multiplication sentence. See examples on pages 24-25 in text.*

9.  $72 \div 3 = 24$

- A)  $24 \cdot 3 = 27$             B)  $24 \cdot 0 = 0$             C)  $1 \cdot 24 = 24$             D)  $24 \cdot 72 = 1728$

*Divide. See examples on page 28 in text.*

10.  $42 \overline{)39,728}$

- A) 38            B) 945 R21            C) 945 R38            D) 945