# Test Outline

45 points

Can use calculators but must show work

-Write numbers in standard form, written form or expanded

-Write the multiples of a number

-Must know the definition of a prime number and a composite number and be able to give an example of each.

-Must know the first 5 prime numbers are 2,3,5,7,11

-Must be able to find common multiples of 2 or more numbers.

-Must be able to list the factors of a number using rainbow or factor pairs

-Must be able to list prime factors of a number using trees

-Given a list of integers be able to indicate which is larger or smaller when comparing (Order from least to greatest or greates to least)

- 3 BEDMAS questions

- Word problem questions similar to our warm-ups

Name _____ Date _____

# Grade 6 Math

## Ch. 2 Understanding Numbers: Test Review

**1.** Evaluate each expression. Use the order of operations.

**a)** $24 \div 6 \times 7$ **b)** $38 - 16 \div 4$ **c)** $55 + 15 \div 3$

**d)** $7 \times (4 + 8)$ **e)** $28 \div (16 - 9)$ **f)** $50 - 16 + 4$

**2.** Use mental math to evaluate.

**a)** $(70 \times 2) \div 7$ **b)** $10\,000 - 3000 \times 3$

**c)** $(3000 + 2000) \div 50$ **d)** $180 \div (2 \times 9)$

**3.** Callie bought 3 packages of drinking boxes.
Each package has 6 drinking boxes.
Callie shared the drinking boxes equally among 9 children.
How many drinking boxes did each child get?
Write a number sentence to show the order of operations you used.

4. List the first 7 multiples of 4

5. List the factors of 72 (You can use a calculator to help)

6. What are the common factors of 30 and 20?

7. Write the following number in expanded form 706 254 003 021.

8. Write the written form for the above number in question 7.

9. Order the integers from greatest to least +45, -15, -17, +7, 0 , -2, +10

10. Do the prime factorization (Tree) of 28.

11. Model -7 with tiles

Key

Ch.2 Gr.6 Test Review

1a) $24 \div 6 \times 7$
$= 4 \times 7$
$= 28$

b) $38 - 16 \div 4$
$= 38 - 4$
$= 34$

c) $55 + 15 \div 3$
$= 55 + 5$
$= 60$

1d) $7 \times (4+8)$
$= 7 \times 12$
$= 84$

1e) $28 \div (16-9)$
$= 28 \div 7$
$= 4$

1f) $50 - 16 + 4$
$= 34 + 4$
$= 38$

2)a) $(70 \times 2) \div 7$
$= 140 \div 7$
$= 20$

b) $10\,000 - 3000 \times 3$
$= 10000 - 9000$
$= 1000$

c) $(3000 + 2000) \div 50$
$= 5000 \div 50$
$= 100$

d) $180 \div (2 \times 9)$
$= 180 \div 18$
$= 10$

3) $(3 \times 6) \div 9$
$= 18 \div 9$
$= 2$

Each child gets 2 juice boxes.

4) Multiples of 4 → 4, 8, 12, 16, 20, 24, 28

5) 72
1 x 72
2 x 36
3 x 24
4 x 18
6 x 12