

# REVIEW

Name \_\_\_\_\_

## Unit 1a Assessment

Number Sense and Fluency  
Exponents, PEMDAS,  
Patterns, Divisibility Rules

Math 6  
Period \_\_\_\_\_



**Test Date: Thursday, September 19, 2019**

[www.mathmillard.weebly.com](http://www.mathmillard.weebly.com)

You are responsible for information taught in class and on homework. Remember that mathematics is a subject that spirals (it builds upon itself), so keeping up with concepts as we go is very important. Good Luck!

### 1. Exponents

Know how to use exponents to express numbers

Know how to write expressions containing exponents in standard form.

Evaluate. (standard form)

a)  $2^4 =$

b)  $4^3 =$

c)  $3^5 =$

Write in expanded form.

d)  $13^3 =$

e)  $7^5 =$

f)  $n^4$

Write as an exponent. (exponential form)

g)  $6 \cdot 6 \cdot 6 \cdot 6 \cdot 6 =$

h)  $5 \cdot 5 \cdot 8 \cdot 8 \cdot 8 \cdot 8$

i) 10,000,000

### 2. Order of Operations

Know how to use order of operation rules to solve arithmetic problems (PEMDAS)

\* make sure you remember: - addition/subtraction left to right  
- multiplication/division left to right

Evaluate.

a)  $10 - 4 + 2 + (4^2 - 14) =$

b)  $20 - 12 \div 4 + 5^2 - 5 \cdot 2 =$

---

### 3. Numerical Patterns

Know how to identify and continue numerical patterns.

---

Find the rule and the next three values in the pattern.

**RULE**

a) 31, 38, 45, 52, 59 ... \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

\_\_\_\_\_

b) 2, 4, 3, 6, 5, 10 ... \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

\_\_\_\_\_

c) 60, 30, 40, 20, 30 ... \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

\_\_\_\_\_

d) 48, 43, 38, 33, 28 ... \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

\_\_\_\_\_

---

### 5. Divisibility

Know the rules of divisibility and how to apply them.

---

Tell whether the target number is divisible by each given number.

**Divisible by:**

**Target # ↓**    2    3    6    4    5    9    10

a) 12    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_

b) 300    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_

c) 63    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_

d) 135    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_

e) 70    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_

---

**Please feel free to come to Extra Help for extra practice  
and help in any of these topics!**

---

**Extra Help this week:    Wednesday after school (2:10-2:40)  
   Thursday morning, 7:00 – 7:30.**

**\*Whole Class Review Wednesday during class.\***