Math Makes Sense 7

Chapter1: Patterns and Relations

NB: When working through the assigned exercises and activities, you should check ALL your answers using the answer guide at the back of the book (starting on pg 346 – use a sticky note to mark the page to make it easy to find). Do **NOT** proceed to the next set of questions until you have corrected the section you are working on. I.e.: Do not wait to correct your answers till you have finished the whole page of assigned questions. Go back and **re-read** the notes and examples till you understand the concept when you are stuck or not getting something.

Key Words: page   Either now or as you work through this chapter, define, illustrate or give an example of each word or idea. **Divisibility rules, multiple, factor, algebraic expression, variable, numerical coefficient, constant term, relation, linear relation, unit title, variable title, algebra tiles.**

Topic 1: Patterns in Division

Read and study pages: 6,7

Give special attention to: divisibility patterns for numbers **2,4,5,8,**and **10**

Basic Assignment: Qs: 1 to 8

Challenge Assignment:

Topic 2: More Patterns in Division

Read and study pages: 10 to 12

Give special attention to: patterns for numbers **3, 6,** and **9, and** the **Divisibility Rules** summary chart, pg 12.

Basic Assignment: Qs: 1 to 6, then two of 7 to 9

Challenge Assignment: Qs 10, and the CHECK Q's on pg 15.

Topic 3: Algebraic Expressions

Read and study pages: 16, 17

Give special attention to: how mathematicians represent multiplication.

Basic Assignment: Qs: m**1 to 8**

Challenge Assignment: 9, 10 (Important)

Reflect: What is "The Order of Operations"?, pg 19

B_____

E _____

D_____

M_____

A_____

S_____

How does this affect how I calculate??   **Try this:**

3 x 4 + 6 ÷ 2 = 9 or 15?

What does your calculator compute? If your calculator has algebraic logic built in, you will get 15. You should **NOT** use a calc. that does not have algebraic logic.

Topic 4: Relationships in Patterns

Read and study pages: 20 to 22

Give special attention to: key words

Basic Assignment: Qs: 1 to 7, **8. Use this organizer:** (like the ones in Q 9)

Term #	1	2	4	4	5
Term					

Challenge Assignment: n

Topic 5: Patterns and Relationships in Tables

Read and study pages:

Give special attention to: h

Basic Assignment: Qs: m

Challenge Assignment: n

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Topic 6: Graphing Relations

Read and study pages:

Give special attention to: h

Basic Assignment: Qs: m

Challenge Assignment: n

Topic 7: Reading and Writing Equations

Read and study pages:

Give special attention to: h

Basic Assignment: Qs: m

Challenge Assignment: n

Topic 8: Solving Equations Using Algebra Tiles

Read and study pages:

Give special attention to: h

Basic Assignment: Qs: m

Challenge Assignment: n

Study Guide, pg

Unit Review, pg 43

Practice Test, pg 47