

DMT INSTITUTE

Developing Mathematical Thinking Institute (DMTI)



Professional
Development



Curricular
Resources



Assessment

Jonathan Brendefur, PhD

1: Relational Thinking

DMTI VARIED PRACTICE

DMTI Varied Practice Worksheets

This PowerPoint or PDF displays the worksheets that have varied situations (context, visual, equations, and other mathematical models) for children to work on. By completing these worksheets, children increase their foundational skills in the topic, which will help them with these standards and future mathematical topics.

1. If using a journal, have children present the worksheet and complete all the problems.
2. Or print the 'Varied Practice Worksheet Slides' for them to work on. Then, you can return to the PowerPoint or PDF to look at the keys to check their work.

Grade 1: Relational Thinking

Materials Needed

Print Varied Practice Worksheets 1.1-1.3

If unable to print, discuss the process verbally.

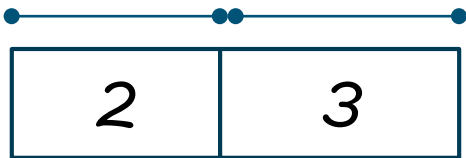
Grade 1: Relational Thinking

Instructions

Part 1

1. Cut out the Relational Thinking Cards on Worksheets 1.1-1.3
2. The child matches each model, with an expression and a number.
3. The child describes each set of cards.

Example



$$2 + 3 = 5$$

“2 and 3 equals $2+3$ (or $3+2$) equals 5.”

Or

“2 and 3 is the same as $2+3$ (or $3+2$) is the same as 5.”

11	7
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20

6 + 9

18

7 + 11

10	10
----	----

10 + 10

9	6
---	---

15

10	6
----	---

25

5 + 8

13

6 + 10

17	8
----	---

8 + 17

8	5
---	---

16

23

$3 + 9$

5	9
---	---

9	3
---	---

14

$7 + 16$

$9 + 5$

16	7
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12

Grade 1: Relational Thinking

Instructions

Part 2

1. The child orders one set (numbers) from largest to smallest.
2. Mix up the cards.
3. The child reorders the cards from smallest to largest.
4. Repeat the process with the models and then the expressions.



“The Developing Mathematical Thinking Institute (DMTI) is dedicated to enhancing students’ learning of mathematics by supporting educators in the implementation of research-based instructional strategies through high-quality professional development, curricular resources and assessments.”

For more information contact
Dr. Brendefur at jbrendefur@dmtinstitute.com

