# **PRE-ASSESSMENT 5**

## Finding Each Student's Pathway

SAMPLE MATERIAL INSIDE

### **FINDING EACH STUDENT'S PATHWAY**

*Math Pre-assessment* is a uniquely designed resource to help educators understand and customize each student's math education. The resource is developed by a team of expert math educators and backed by research. *Math* Pre-assessment enables educators to compare a student's math understanding to their curriculum, identify gaps in understanding and ensure each student is ready for new curriculum material all with this easy to use assessment tool.

Each pre-assessment is created from a **DEVELOPMENTAL TRAJECTORY**. These developmental trajectories are research-supported pathways that students go through to understand mathematics concepts and skills as they move along a learning continuum.

#### **Developmental Trajectory**

#### **Key Features**

- Provides the developmental trajectories to give a whole picture of math development from grade 1–6.
- Assesses whether students have the procedural knowledge and conceptual understandings for the grade specific curriculum.
- Pre-assessments identify where a student is on the developmental trajectory.
- Includes next steps for instruction, gap closing or intervention.
- Tracking tools are provided to keep a record of student readiness.



The operations of addition, subtraction, multiplication, and division are interrelated.

Financial literacy is the basis for making responsible decisions about money, and considering the impact the decisions have on oneself and on others.

#### Answering The Question: "Are My Students Ready?"



Identifies the Strand, the Application(s) and the item(s) for the application.	NUMBER Fractions and Decimals: Pre     NUMBER Fractions and Decimal     Relate Fractions and Decimal	-assessment page xx			6.	QUESTIONS	RATIONALE Students write fractions and	SCORING
Student needs gap closing.	QUESTIONS       1. Colour the strip to show the fraction.       a) $\frac{2}{10}$ For example,	RATIONALE Students represent fraction tenths pictorially. Connecting fractions and visual representations emphasizes the meaning of fractions.	SCORING Oincorrect	NEXT STEPS Provide experience: • modelling tenths using fraction circles, fraction strips, and decimal strips For deeper intervention, ao		fraction. a) $0.1 = \frac{1}{10}$ b) $0.5 = \frac{5}{10}$ c) $0.8 = \frac{8}{10}$	decimals using symbols. Expressing numbers in different forms establishes an understanding of connections between representations.	
Recommended intervention. Contains the "Look Fors" and an explanation for why the question is included.	b) $\frac{7}{10}$ For example,			to Leaps and Bounds 3/4, pages 74–75.	_	7. a) Which decimal is equivalent to $\frac{2}{5}$ ? Circle it. A. 0.2 B. 0.4 C. 0.6 D. 0.8 B b) Explain how you decided. For example, I compared the number of shaded squares in the 10-frame, and $\frac{2}{5}$ is the same as $\frac{4}{10}$ , so $\frac{2}{5} = 0.40$ .	Students use a pictorial representation to relate fraction fifths to decimal tenths, and explain how they did this. Knowing the decimal equivalents of common fractions, such as half, quarter, fifth, and eighth, is preparation for learning in later grades that the relationship between equivalent fractions is multiplicative.	incorrec
	<ul> <li>Colour the strip to show the decimal.</li> <li>a) 0.2</li> <li>For example,</li> <li>b) 0.7</li> <li>For example,</li> </ul>	Students represent decimal tenths pictorially. Using the same model to represent fractions and decimals reinforces the relationship between them.	incorrect	<ul> <li>Provide experience:</li> <li>relating the parts of the fraction (numerator, denominator) and model (such as whole strip and coloured part) and the parts of a decimal (place values, decimal point) and what they show</li> </ul>				explanation correc
	<ul> <li>Write each fraction using words.</li> <li>a) <sup>2</sup>/<sub>10</sub> = <u>two tenths</u></li> <li>b) <sup>7</sup>/<sub>10</sub> = <u>seven tenths</u></li> <li>Write each decimal using words.</li> <li>a) 0.2 = <u>two tenths</u></li> <li>b) 0.7 = <u>seven tenths</u></li> </ul>	Students represent fraction and decimal tenths using words. Recognizing that equivalent fractions and decimals are read and written in words the same way reinforces the understanding that the fractions and decimals are different names for the same number.	incorrect	<ul> <li>Provide experience:</li> <li>discussing examples of things that have more than one name (for example, a person may be Mr. Smith, Bobby, or Dad; pop is also called soda or a soft drink) and brainstorming reasons why a thing might have different names</li> </ul>				
	5. Write each fraction as a decimal. a) $\frac{2}{10} = 0.2$ b) $\frac{7}{10} = 0.7$	Students relate fraction and decimal tenths. Developing familiarity and ease with both fraction and decimal forms of numbers is essential in developing an awareness of different ways to record numbers.	incorrect	<ul> <li>Provide experience:</li> <li>describing real-life parts of a whole or group or measurements, using both fractions and decimals</li> </ul>				
		2		NEL	NEL		3	



#### **Math Pre-Assessment Order Information**

Title	ISBN
Math Pre-Assessment Grade 1	
Book + Online Teaching Centre (Ontario)	9780176830892
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