Stories and Equations
NX Algebra

Name: _____
Date: _____ Per: _____

Story #1: Ms. Oppenheim is saving money in the bank for a vacation. She initially has one hundred dollars. She saves an additional fifty dollars every month.

1. **Translate** the **WHOLE** story into your L1: _____

   _____

   _____

2. **Draw** a picture that represents the story.

3. **Read** the story out loud again. **Write** all the **important numbers** from the story with the corresponding **units**:

   Example: 5 meters (# and unit)

   1. _____

   2. _____

4. Use the toolkit to look for **key signal words** in the story. In the story, **color** the words that represent the **starting point in green** and the words that represent **slope (growth) in purple**.

5. **Write** the **words** you colored here:

   Starting point: _____

   Slope: _____

6. **Write** the **values** of the slope and starting point with units.

   Starting point: _____

   Slope: _____

7. **Write** an **equation** that represents this story.

8. **Make** a **table** that represents this story.

X (month)	**0**	**1**	**2**	**3**	**4**
Y (dollars)					

9. How much money will Ms. Oppenheim have after one year (___ months)?

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Name: _____
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Story #2: Ms. Allen races her friends on bicycles. She has a head start of six meters in front of the starting line. She rides her bike fifteen meters per second.

1. **Translate** the **UNKNOWN** words into your L1: _____

   _____

   _____

2. **Draw** a picture that represents the story.

3. **Read** the story out loud again. **Write** all the **important numbers** from the story with the corresponding **units**:

   Example: 5 meters (# and unit)

   1. _____

   2. _____

4. In the story, **color** the words

   - **starting point in green**
   - **slope (growth) in red**.

5. **Write** the **words** you colored here:

   Starting point: _____

   Slope: _____

6. **Write** the **values** of the slope and starting point with units.

   Starting point: _____

   Slope: _____

7. **Write** an **equation** that represents this story.

8. **Make** a **table** that represents this story.

X (seconds)	**0**	**1**	**2**	**3**	**4**
Y (meters)					

9. How far will Ms. Allen ride in one minute (___ seconds)?

Stories and Equations
NX Algebra

Name: _____
Date: _____ Per: _____

Story #3: Ms. Forbes plants a tree in her garden. On the day it is planted (Day 0), the tree is fifty centimeters tall. The tree grows four centimeters every day.

1. **Translate** the **WHOLE** story into your L1: _____

_____

_____

2. **Draw** a picture that represents the story.

3. **Read** the story out loud again. **Write** all the **important numbers** from the story with the corresponding **units**:

Example: 5 meters (# and unit)

1. _____

2. _____

4. Use the toolkit to look for **key signal words** in the story. In the story, **color** the words that represent the **starting point in green** and the words that represent **slope (growth) in red**.

5. **Write** the **words** you colored here:

Starting point: _____

Slope: _____

6. **Write** the **values** of the slope and starting point with units.

Starting point: _____

Slope: _____

7. **Write** an **equation** that represents this story.

8. **Make** a **table** that represents this story.

X (days)	**0**	**1**	**2**	**3**	**4**
Y (centimeters)					

9. How tall is Ms. Forbes' tree after four weeks (___ days)?

Stories and Equations
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Name: _____
Date: _____ Per: _____

Story #4: Mr. Rubio starts with one hundred seventy-five dollars to spend on cheeseburgers. He spends five dollars per day to buy a cheeseburger.

1. **Translate** the **WHOLE** story into your L1: _____

_____

_____

2. **Draw** a picture that represents the story.

3. **Read** the story out loud again. **Write** all the **important numbers** from the story with the corresponding **units**:

Example: 5 meters (# and unit)

1. _____

2. _____

4. Use the toolkit to look for **key signal words** in the story. In the story, **color** the words that represent the **starting point in green** and the words that represent **slope (growth) in red**.

5. **Write** the **words** you colored here:

Starting point: _____

Slope: _____

6. **Write** the **values** of the slope and starting point with units.

Starting point: _____

Slope: _____

7. **Write** an **equation** that represents this story.

8. **Make** a **table** that represents this story.

X (days)	**0**	**1**	**2**	**3**	**4**
Y (dollars)					

9. How much money does Mr. Rubio have left after two weeks (___ days) of eating cheeseburgers?

Stories and Equations
NX Algebra

Name: _____
Date: _____ Per: ___

Story #5: Ms. Beglinger already has sixty-four pictures saved on her phone. She decides she is going to start taking seven pictures every day.

1. **Translate** the **WHOLE** story into your L1: _____

_____

_____

2. **Draw** a picture that represents the story.

3. **Read** the story out loud again. **Write** all the **important numbers** from the story with the corresponding **units**:

Example: 5 meters (# and unit)

1. _____

2. _____

4. Use the toolkit to look for **key signal words** in the story. In the story, **color** the words that represent the **starting point in green** and the words that represent **slope (growth) in red**.

5. **Write** the **words** you colored here:

Starting point: _____

Slope: _____

6. **Write** the **values** of the slope and starting point with units.

Starting point: _____

Slope: _____

7. **Write** an **equation** that represents this story.

8. **Make** a **table** that represents this story.

X (days)	**0**	**1**	**2**	**3**	**4**
Y (pictures)					

9. How many pictures will Ms. Beglinger have on her phone after 5 weeks (___ days)?