

# Mathematics Task 1: Missing Value

## Materials and Setup

### Item 1

$$X + 3 = 10$$

3	7	13
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### Item 2

$$4 + X = 9$$

9	13	5
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### Item 3

$$X - 3 = 10$$

add 3	subtract 3	divide by 3
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### Item 4

$$X - 3 = 10$$

3	7	13
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### Item 5

$$10 - X = 7$$

10	3	17
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## Adaptive Instructions

N/A (Not Applicable) (Item 1, 2, 3, 4, 5)

**Access Limitations**

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N/A (Not Applicable) (Item 1, 2, 3, 4, 5)

Mathematics Task 1:

Missing Value: Item 1

Setup

$$X + 3 = 10$$

3	7	13
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Script

Say: *We're going to find missing values.*




Do: Read the equation to the student.

Say: *Show (tell) me what is the value of X* (indicate the X in the equation): *three* (indicate the 3 card), *seven* (indicate the 7 card), *or thirteen* (indicate the 13 card)?

**TRY 1**

	→	Record 2	→	Next Item
	→	Remove Incorrect Student Response	→	<b>TRY 2</b>
	→	Remove 13	→	<b>TRY 2</b>

**TRY 2** *Show (tell) me what is the value of X* (indicate the X in the equation): (indicate each remaining option in the original order of presentation)?

	→	Record 1	→	Next Item
	→	Record 0	→	Next Item
	→	Record N	→	Next Item

Missing Value: Item 2

Setup

4 + X = 9




9    13    5

Script




Say: **This is the equation four plus X equals nine** (indicate the 4 + X = 9 sentence strip).

Say: **Show (tell) me what is the value of X** (indicate the X in the equation): **nine** (indicate the 9 card), **thirteen** (indicate the 13 card), **or five** (indicate the 5 card)?

**TRY 1**

	→	Record 2	→	Next Item
	→	Remove Incorrect Student Response	→	<b>TRY 2</b>
	→	Remove 13	→	<b>TRY 2</b>

**TRY 2** *Show (tell) me what is the value of X* (indicate the X in the equation): (indicate each remaining option in the original order of presentation)?

	→	Record 1	→	Next Item
	→	Record 0	→	Next Item
	→	Record N	→	Next Item

Missing Value: Item 3

Setup

$$X - 3 = 10$$

add 3	subtract 3	divide by 3
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Script

Say: ***This is the equation X minus three equals ten*** (indicate the  $X - 3 = 10$  sentence strip).

Say: ***Show (tell) me what we do to find the value of X*** (indicate the X in the equation): ***add three*** (indicate the add 3 card), ***subtract three*** (indicate the subtract 3 card), ***or divide by three*** (indicate the divide by 3 card)?

**TRY 1**

Correct	→	Record 2	→	Next Item
Incorrect	→	Remove Incorrect Student Response	→	<b>TRY 2</b>
N	→	Remove <span style="border: 1px solid black; padding: 2px;">divide by 3</span>	→	<b>TRY 2</b>

**TRY 2** *Show (tell) me what we do to find the value of X* (indicate the X in the equation): (indicate each remaining option in the original order of presentation)?

Correct	→	Record 1	→	Next Item
Incorrect	→	Record 0	→	Next Item
N	→	Record N	→	Next Item

Mathematics Task 1:

Missing Value: Item 4

Setup

$$X - 3 = 10$$




3	7	13
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Script




Do: Reread the equation.

Say: **Show (tell) me what is the value of X** (indicate the X in the equation): **three** (indicate the 3 card), **seven** (indicate the 7 card), **or thirteen** (indicate the 13 card)?

**TRY 1**

	→	Record 2	→	Next Item
	→	Remove Incorrect Student Response	→	<b>TRY 2</b>
	→	Remove <input type="text" value="3"/>	→	<b>TRY 2</b>

**TRY 2** *Show (tell) me what is the value of X* (indicate the X in the equation): (indicate each remaining option in the original order of presentation)?

	→	Record 1	→	Next Item
	→	Record 0	→	Next Item
	→	Record N	→	Next Item

Missing Value: Item 5

Setup

$$10 - X = 7$$

10	3	17
----	---	----

Script

Say: ***This is the equation ten minus X equals seven*** (indicate the  $10 - X = 7$  sentence strip).

Say: ***Show (tell) me what the value of X is*** (indicate the X in the equation): ***ten*** (indicate the 10 card), ***three*** (indicate the 3 card), ***or seventeen*** (indicate the 17 card)?

At the completion of the task say: ***We're finished finding missing values.***

**TRY 1**

Correct	→	Record 2	→	Next Item
Incorrect	→	Remove Incorrect Student Response	→	<b>TRY 2</b>
N	→	Remove 17	→	<b>TRY 2</b>

**TRY 2** ***Show (tell) me what the value of X is*** (indicate the X in the equation): (indicate each remaining option in the original order of presentation)?

Correct	→	Record 1	→	Next Item
Incorrect	→	Record 0	→	Next Item
N	→	Record N	→	Next Item

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