

# Tennessee Comprehensive Assessment Program

# TCAP

## TNReady—Math Grade 5 Item Release





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## Metadata Interpretation Guide – Math

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### SAMPLE METADATA TABLE

<b>Label</b>	TN0045532	<b>Max Points</b>	1
<b>Item Grade</b>	8	<b>Rationale1</b>	
<b>Item Content</b>	Math	<b>Rationale2</b>	
<b>Item Type</b>	Choice	<b>Rationale3</b>	
<b>Key</b>	3	<b>Rationale4</b>	
<b>DOK</b>	2	<b>Rationale5</b>	
<b>Difficulty</b>	M	<b>Rationale6</b>	
<b>Calculator</b>	No	<b>Sample Answer</b>	
<b>Ruler</b>	None		
<b>Standard 1 Code</b>	8.NS.A.2	<b>Standard 1</b>	
<b>Standard 2 Code</b>	8.NS.A.2	<b>Standard 2</b>	

## METADATA DEFINITIONS

<b>Label:</b> Unique letter/number code used to identify the item.	<b>Max Points:</b> Maximum score points possible for this item.
<b>Item Grade</b> (if listed): Grade level in 3-8 or EOC	<b>Rationale1</b> (if listed): Reason why this answer choice is correct or incorrect.
<b>Item Content</b> (if listed): Subject being tested. (e.g., ELA, Algebra I, etc.).	<b>Rationale2</b> (if listed): Reason why this answer choice is correct or incorrect.
<b>Item Type:</b> For example, "Choice" for multiple choice questions, "Match" for matching tables, "Composite" for two-part items.	<b>Rationale3</b> (if listed): Reason why this answer choice is correct or incorrect.
<b>Key:</b> Correct answer. 1=A, 2=B, etc. This may be blank for constructed response items where students write or type their responses.	<b>Rationale4</b> (if listed): Reason why this answer choice is correct or incorrect.
<b>DOK</b> (if listed): Depth of Knowledge (cognitive complexity) is measured on a four-point scale. 1=recall; 2=skill/concept; 3=strategic thinking; 4=extended thinking.	<b>Rationale5</b> (if listed): Reason why this answer choice is correct or incorrect.
<b>Difficulty</b> (if listed): Level of difficulty.	<b>Rationale6</b> (if listed): Reason why this answer choice is correct or incorrect.
<b>Calculator</b> (if listed): Yes for items that permit calculator use.	<b>Protractor</b> (if listed): Yes for items that permit protractor use.
<b>Ruler</b> (if listed): Yes for items that permit a ruler.	<b>Sample Answer</b> (if listed): An example of an answer a student could provide.
<b>Standard 1 Code</b> (if listed): Content standard assessed.	<b>Standard 1</b> (if listed): Text of the content standard assessed.
<b>Standard 2 Code</b> (if listed): Content standard assessed. This is the primary code used for the Integrated Math courses.	<b>Standard 2</b> (if listed): Text of the content standard assessed.

# Math Grade 5

## TN720275

<b>Label</b>	TN720275	<b>Max Points</b>	1
<b>Item Grade</b>	05	<b>Rationale1</b>	N/A
<b>Item Content</b>	Math	<b>Rationale2</b>	N/A
<b>Item Type</b>	extendedText	<b>Rationale3</b>	N/A
<b>Key</b>	na	<b>Rationale4</b>	N/A
<b>DOK</b>	2	<b>Rationale5</b>	N/A
<b>Difficulty</b>	N/A	<b>Rationale6</b>	N/A
<b>Calculator</b>	No	<b>Sample Answer</b>	N/A
<b>Ruler</b>	None		
<b>Standard 1 Code</b>	5.NF.B.4b	<b>Standard 1 Text</b>	N/A

The width of a rectangle is  $\frac{1}{2}$  meter. The length of the rectangle is  $1\frac{2}{3}$  meters.

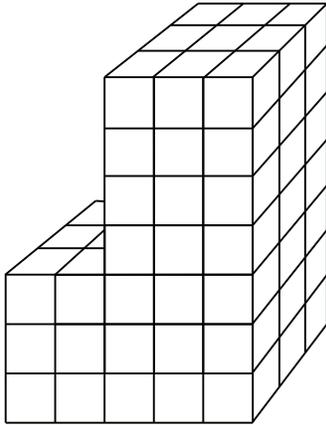
What is the area, in square meters, of the rectangle?



**TN820170**

<b>Label</b>	TN820170	<b>Max Points</b>	1
<b>Item Grade</b>	05	<b>Rationale1</b>	N/A
<b>Item Content</b>	Math	<b>Rationale2</b>	N/A
<b>Item Type</b>	choice	<b>Rationale3</b>	N/A
<b>Key</b>	2	<b>Rationale4</b>	N/A
<b>DOK</b>	2	<b>Rationale5</b>	N/A
<b>Difficulty</b>	N/A	<b>Rationale6</b>	N/A
<b>Calculator</b>	Yes	<b>Sample Answer</b>	N/A
<b>Ruler</b>	None		
<b>Standard 1 Code</b>	5.MD.C.5c	<b>Standard 1 Text</b>	N/A

What is the volume of this figure?

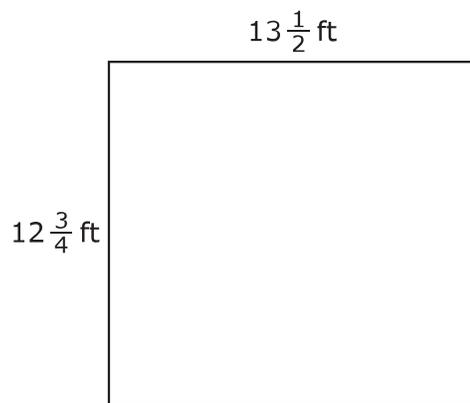


- A 105 cubic units
- B 81 cubic units
- C 45 cubic units
- D 36 cubic units

## TN320263

<b>Label</b>	TN320263	<b>Max Points</b>	1
<b>Item Grade</b>	05	<b>Rationale1</b>	N/A
<b>Item Content</b>	Math	<b>Rationale2</b>	N/A
<b>Item Type</b>	choice	<b>Rationale3</b>	N/A
<b>Key</b>	4	<b>Rationale4</b>	N/A
<b>DOK</b>	2	<b>Rationale5</b>	N/A
<b>Difficulty</b>	N/A	<b>Rationale6</b>	N/A
<b>Calculator</b>	Yes	<b>Sample Answer</b>	N/A
<b>Ruler</b>	None		
<b>Standard 1 Code</b>	5.NF.B.4b	<b>Standard 1 Text</b>	N/A

The lengths of the sides of a room are shown.



What is the area of the room?

- M  $26\frac{1}{4}\text{ft}^2$
- P  $52\frac{1}{2}\text{ft}^2$
- R  $156\frac{3}{8}\text{ft}^2$
- S  $172\frac{1}{8}\text{ft}^2$

**TN120179**

<b>Label</b>	TN120179	<b>Max Points</b>	1
<b>Item Grade</b>	05	<b>Rationale1</b>	N/A
<b>Item Content</b>	Math	<b>Rationale2</b>	N/A
<b>Item Type</b>	choice	<b>Rationale3</b>	N/A
<b>Key</b>	4	<b>Rationale4</b>	N/A
<b>DOK</b>	2	<b>Rationale5</b>	N/A
<b>Difficulty</b>	N/A	<b>Rationale6</b>	N/A
<b>Calculator</b>	Yes	<b>Sample Answer</b>	N/A
<b>Ruler</b>	None		
<b>Standard 1 Code</b>	5.MD.C.5b	<b>Standard 1 Text</b>	N/A

A cube has a side length of 6 centimeters. What is the volume of the cube?

- A  $18 \text{ cm}^3$
- B  $36 \text{ cm}^3$
- C  $144 \text{ cm}^3$
- D  $216 \text{ cm}^3$

**TN420249**

<b>Label</b>	TN420249	<b>Max Points</b>	1
<b>Item Grade</b>	05	<b>Rationale1</b>	N/A
<b>Item Content</b>	Math	<b>Rationale2</b>	N/A
<b>Item Type</b>	extendedText	<b>Rationale3</b>	N/A
<b>Key</b>	na	<b>Rationale4</b>	N/A
<b>DOK</b>	2	<b>Rationale5</b>	N/A
<b>Difficulty</b>	N/A	<b>Rationale6</b>	N/A
<b>Calculator</b>	Yes	<b>Sample Answer</b>	N/A
<b>Ruler</b>	None		
<b>Standard 1 Code</b>	5.NF.B.7c	<b>Standard 1 Text</b>	N/A

Pam made  $\frac{1}{2}$  gallon of tea for 10 people. Each person gets the same amount of tea.

How much tea, in gallons, will each person get?



**TN720252**

<b>Label</b>	TN720252	<b>Max Points</b>	1   1   1
<b>Item Grade</b>	05	<b>Rationale1</b>	N/A
<b>Item Content</b>	Math	<b>Rationale2</b>	N/A
<b>Item Type</b>	Composite	<b>Rationale3</b>	N/A
<b>Key</b>	&lt;   &lt;   &lt;	<b>Rationale4</b>	N/A
<b>DOK</b>	1	<b>Rationale5</b>	N/A
<b>Difficulty</b>	N/A	<b>Rationale6</b>	N/A
<b>Calculator</b>	Yes	<b>Sample Answer</b>	N/A
<b>Ruler</b>	None		
<b>Standard 1 Code</b>	5.NBT.A.3	<b>Standard 1 Text</b>	N/A

Write symbols (<, >, or =) in the spaces in your answer document to correctly compare the numbers.

3.011  3.1

4.002  4.022

5.16  5.161

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