

Tennessee Comprehensive Assessment Program

TCAP

TNReady—Math Grade 4 Item Release





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Metadata Interpretation Guide – Math

SAMPLE METADATA TABLE

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

METADATA DEFINITIONS

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

Math Grade 4

TN026967

Label	TN026967	Max Points	1
Item Grade	04	Rationale1	N/A
Item Content	Math	Rationale2	N/A
Item Type	textEntry	Rationale3	N/A
Key	23	Rationale4	N/A
DOK	2	Rationale5	N/A
Difficulty	N/A	Rationale6	N/A
Calculator	Yes	Sample Answer	N/A
Ruler	None		
Standard 1 Code	4.OA.A.3	Standard 1 Text	N/A

A teacher is setting up 204 chairs in rows for a concert. Each row can fit 9 chairs.

What is the **least** number of rows needed to fit all of the chairs?

TN522542

Label	TN522542	Max Points	1
Item Grade	04	Rationale1	N/A
Item Content	Math	Rationale2	N/A
Item Type	choice	Rationale3	N/A
Key	1,4,5	Rationale4	N/A
DOK	2	Rationale5	N/A
Difficulty	N/A	Rationale6	N/A
Calculator	Yes	Sample Answer	N/A
Ruler	None		
Standard 1 Code	4.NBT.B.5	Standard 1 Text	N/A

An area model is shown.

×	40	7	
60	2400	420	
5	?	35	

One number is missing.

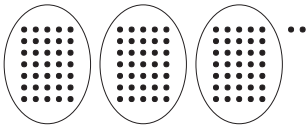
Choose the **three** true statements about the area model.

- The product of the area model is 3055.
- The missing number is 20.
- The model shows 407×605 .
- The missing number is 200.
- The model shows 47×65 .

TN222564

Label	TN222564	Max Points	1
Item Grade	04	Rationale1	N/A
Item Content	Math	Rationale2	N/A
Item Type	choice	Rationale3	N/A
Key	4	Rationale4	N/A
DOK	2	Rationale5	N/A
Difficulty	N/A	Rationale6	N/A
Calculator	Yes	Sample Answer	N/A
Ruler	None		
Standard 1 Code	4.NBT.B.6	Standard 1 Text	N/A

Which expression is represented by the model?



M $35 \div 3$

P $35 \div 2$

R $105 \div 3$

S $107 \div 3$

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