

3<sup>rd</sup> Grade Items

1.

1986

A pencil has a mass of 25 grams. An apple has a mass that is 75 grams more than the pencil.

What is the mass of the apple, in grams?

← → ↶ ↷ ✖

1	2	3
4	5	6
7	8	9
0	.	$\frac{\square}{\square}$

Claim \_\_\_\_\_

DOK \_\_\_\_\_

2.

1988

Does replacing the unknown number with 7 make each equation true?  
Select Yes or No for each equation.

	Yes	No
$6 \times \square = 36$	<input type="checkbox"/>	<input type="checkbox"/>
$8 \times \square = 64$	<input type="checkbox"/>	<input type="checkbox"/>
$49 \div \square = 7$	<input type="checkbox"/>	<input type="checkbox"/>
$54 \div \square = 6$	<input type="checkbox"/>	<input type="checkbox"/>

Claim \_\_\_\_\_

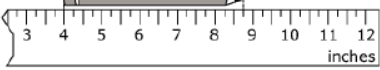
DOK \_\_\_\_\_

3.

**2024**

Tracy has a broken ruler, but she can use it to measure the length of her pencil.

What is the length, in inches, of the pencil shown?



(A) 8 inches  
 (B)  $7\frac{3}{4}$  inches  
 (C) 5 inches  
 (D)  $4\frac{3}{4}$  inches

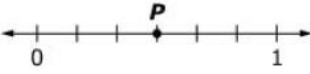
Claim \_\_\_\_\_

DOK \_\_\_\_\_


4.


**2015**

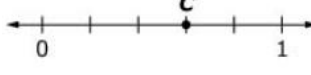
Use this number line to solve the problem.

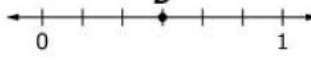


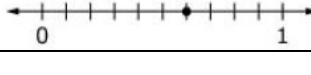
Choose **all** the number lines that show a number equal to the number shown by point *P*.











Claim \_\_\_\_\_

DOK \_\_\_\_\_

5.

592
?
f

Marcia read books over the summer. She created the picture graph shown.

**Summer Reading**

Month	Books
June	
July	
August	

= 2 books

Create another picture graph that shows these data with a different key. You may use whole books and half books in your graph.

**A. Select the key you will use.**

= 3 books    = 4 books    = 5 books    = 6 books

**B. New picture graph**

**Summer Reading**

Month	Books
June	
July	
August	

Claim \_\_\_\_\_

DOK \_\_\_\_\_

6.

2025
?
f

A teacher gives 6 students some cards to play a game. She has 52 cards total. The teacher gives each student 1 card until all 52 cards are gone.

How many students get exactly 9 cards?

(A) 2

(B) 4

(C) 5

(D) 6

Claim \_\_\_\_\_

DOK \_\_\_\_\_

7.

2045

A bottle holds  $\frac{3}{5}$  liter of water. Sam needs 8 full bottles of water to fill his fish tank. How many liters of water does Sam need to fill the fish tank?

- (A)  $2\frac{1}{5}$
- (B)  $4\frac{4}{5}$
- (C)  $7\frac{2}{5}$
- (D)  $8\frac{3}{5}$

Claim \_\_\_\_\_

DOK \_\_\_\_\_

8.

1971

A student claims that all fractions greater than  $\frac{3}{7}$  have a denominator less than 7.

Show that the student's claim is only sometimes true.

A. Drag one number into each box to create a fraction greater than  $\frac{3}{7}$  with a denominator less than 7.

B. Drag one number into each box to create a fraction greater than  $\frac{3}{7}$  with a denominator greater than 7.

0

Delete

**A. Denominator less than 7**

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**B. Denominator greater than 7**

Claim \_\_\_\_\_

DOK \_\_\_\_\_

9.

2023

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Connor is buying tickets to a concert. The concert he and his friends want to see costs \$4.75 per ticket. Connor has \$26.00 total.

What is the **greatest** number of tickets Connor can buy?

- (A) 4
- (B) 5
- (C) 6
- (D) 7





Claim \_\_\_\_\_  
 DOK \_\_\_\_\_

10.

1891


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Which fraction model best represents  $4 \times \frac{2}{3}$ ?

- (A) 
- (B) 
- (C) 
- (D) 

Claim \_\_\_\_\_  
 DOK \_\_\_\_\_

11.

**1890** 

Jasmine solves the equation  $\square \div 4 = 363$  using this area model.

	4	
300		1200
60		?
3		12


Which statement explains how Jasmine should solve for the missing number in the model?

- (A) Jasmine should divide 60 by 4.
- (B) Jasmine should divide 1200 by 12.
- (C) Jasmine should multiply 3 times 60.
- (D) Jasmine should multiply 4 times 60.

Claim \_\_\_\_\_

DOK \_\_\_\_\_

12.

**628** 

Tyler is 8 years old. His sister Olivia is 4 years less than twice his age.

Write a numerical expression for Olivia's age.

←
→
↶
↷
✖

1	2	3	+	-	×	÷
4	5	6	<	=	>	
7	8	9	$\square^{\square}$	( )		
0	.	$\frac{\square}{\square}$				

Claim \_\_\_\_\_

DOK \_\_\_\_\_