

6th grade

1779



The equation shown has an unknown number.

$$\square \div \frac{2}{3} = \frac{3}{4}$$

Enter a fraction that makes the equation true.

←	→	↶	↷	✖		
1	2	3	+	-	*	÷
4	5	6	<	=	>	
7	8	9	$\frac{\square}{\square}$	\square^{\square}	()	
0	.	-				

1997



Suppose $\angle A$ is an angle such that $\cos A < \sin A$.
Select **all** angle measures that are possible values
for $\angle A$.

- 25°
- 35°
- 45°
- 55°
- 65°
- 75°

4th grade

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

1

2

3

4

5

6

7

8

9

A. Denominator less than 7

—

B. Denominator greater than 7

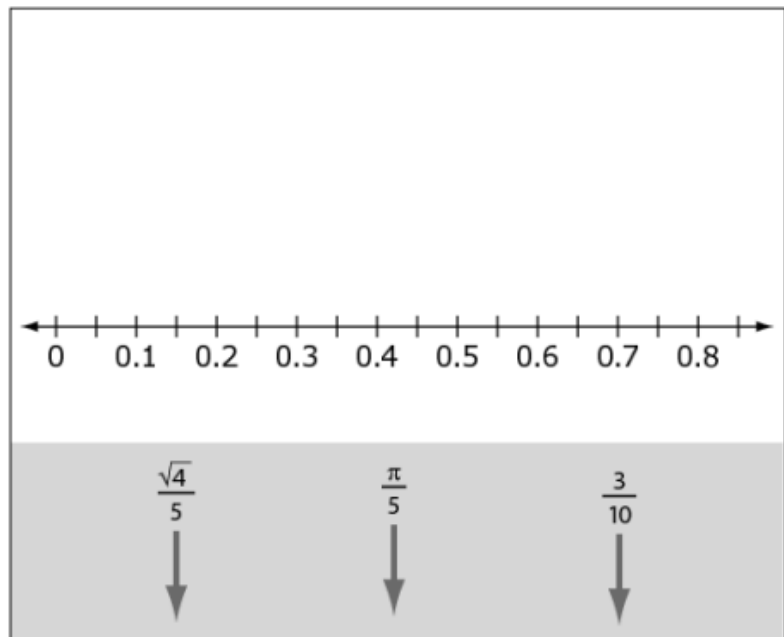
—

8th Grade

1860



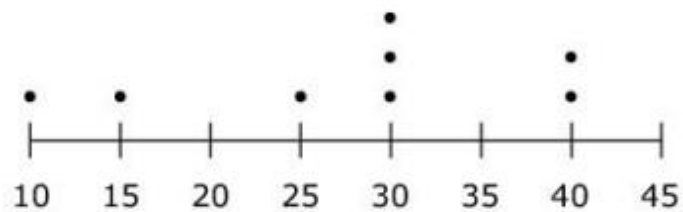
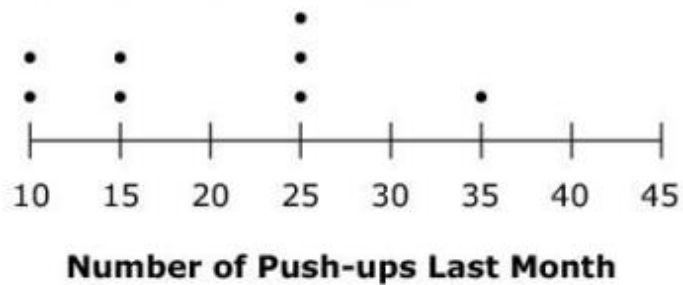
Drag each number to its correct position on the number line.



1880

Mr. Anthony wants to know how some student athletes are improving in the number of push-ups they can do.

These dot plots show the number of push-ups each student was able to do last month and this month.

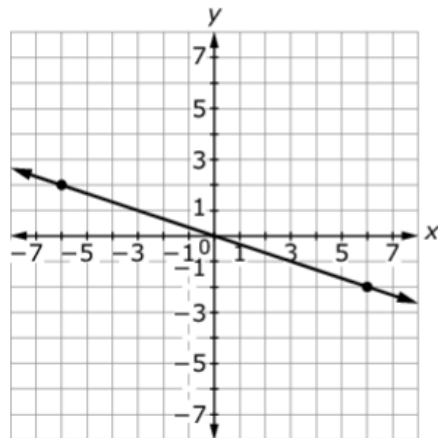


What is the increase in the mean number of push-ups from last month to this month?

1863



Consider this graph of a line.



Enter an equation for the line.

←	→	↶	↷	✖					
1	2	3	x	y					
4	5	6	+	-	×	÷			
7	8	9	<	≤	=	≥	>		
0	.	-	$\frac{\square}{\square}$	\square^\square	()		$\sqrt{\square}$	$\sqrt[n]{\square}$	π

4th grade

1800



Select **all** the numbers that make this inequality true.

$$2\frac{1}{8} > \square + 1 + \frac{1}{8}$$

$\frac{1}{8}$

$\frac{4}{8}$

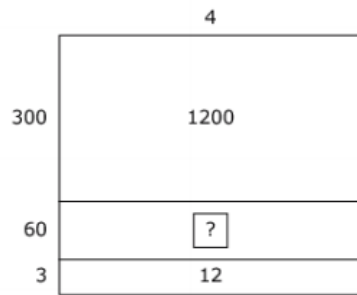
$\frac{10}{8}$

$\frac{16}{8}$

5th grade



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



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.

6th grade

1857



Look at the equation.

$$\frac{2}{3} \times \frac{\square}{\square} = n$$

Sarah claims that for any fraction multiplied by $\frac{2}{3}$, n will be less than $\frac{2}{3}$.

To convince Sarah that this statement is only sometimes true:

Part A: Drag one number into each box so the product, n , is less than $\frac{2}{3}$.

Part B: Drag one number into each box so the product, n , is **not** less than $\frac{2}{3}$.

1
2
3
4
5
6
7
8
9

Delete

Part A: Product n is less than $\frac{2}{3}$

$$\frac{2}{3} \times \frac{\square}{\square} = n$$

Part B: Product n is not less than $\frac{2}{3}$

$$\frac{2}{3} \times \frac{\square}{\square} = n$$

Part A: Product n is less than $\frac{2}{3}$

