6th grade

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	□/□	□□	( )	||
0	.	-

DOK - 1

Claim- 1

11th grade

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°

DOK – 2
Claim- 2

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.

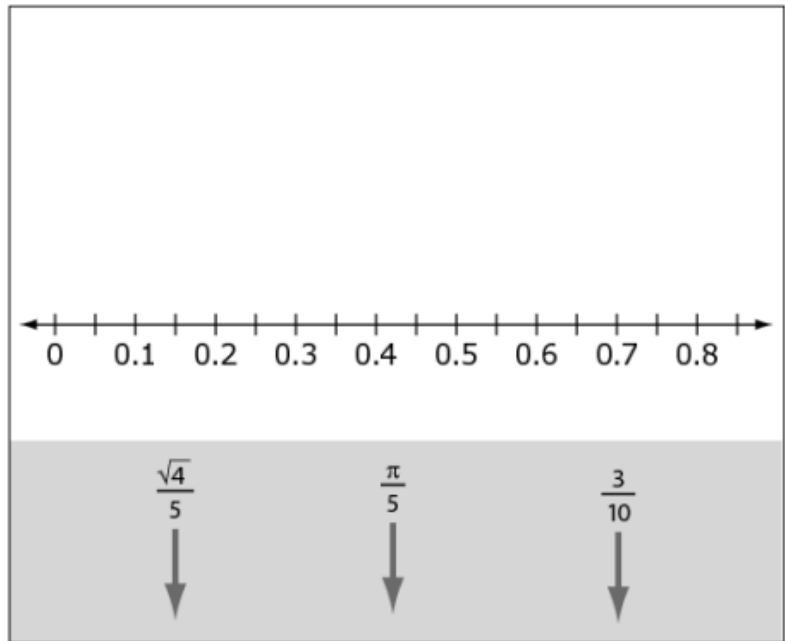B. Drag one number into each box to create a fraction greater than $\frac{3}{7}$ with a denominator greater than 7.

0
1
2
3
4
5
6
7
8
9

Delete

A. Denominator less than 7

B. Denominator greater than 7

DOK- 2
Claim - 3

8th Grade

1860

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

```
 ←+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+→
   0    0.1   0.2   0.3   0.4   0.5   0.6   0.7   0.8
```

$$\frac{\sqrt{4}}{5} \qquad \frac{\pi}{5} \qquad \frac{3}{10}$$
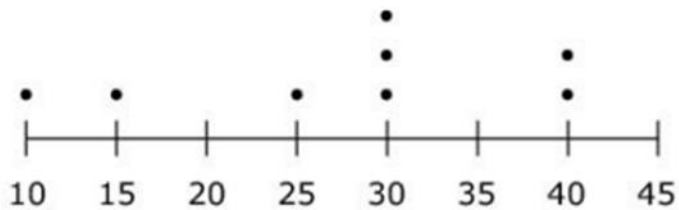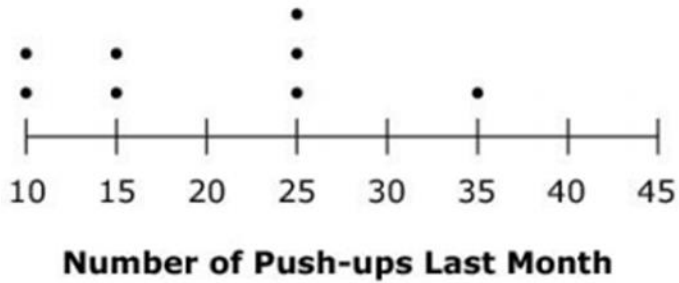
↓ ↓ ↓

DOK - 2
Claim - 1

7th Grade

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

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.
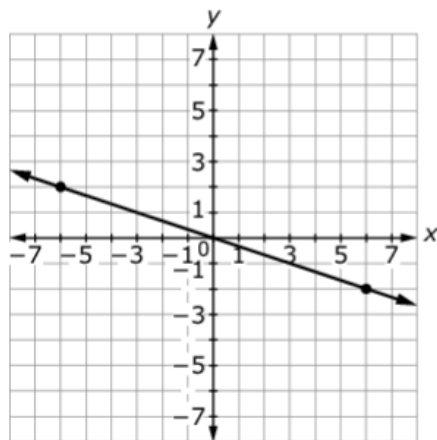


```
              •
  •    •      •
  •    •      •              •
  ├──┼──┼──┼──┼──┼──┼──┤
  10  15  20  25  30  35  40  45
```

Number of Push-ups Last Month


```
              •
              •         •
  •    •      •    •    •
  ├──┼──┼──┼──┼──┼──┼──┤
  10  15  20  25  30  35  40  45
```

DOK – 2
Claim -1

1863

Consider this graph of a line.

Enter an equation for the line.

4th grade

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

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

☐ $\frac{1}{8}$

☐ $\frac{4}{8}$
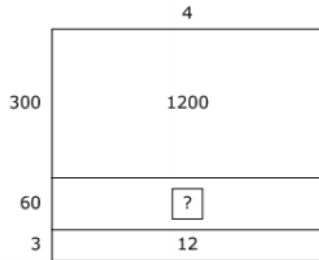
☐ $\frac{10}{8}$

☐ $\frac{16}{8}$

DOK – 3
Claim-3

5th grade

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?

Ⓐ Jasmine should divide 60 by 4.

Ⓑ Jasmine should divide 1200 by 12.

Ⓒ Jasmine should multiply 3 times 60.

Ⓓ Jasmine should multiply 4 times 60.

DOK – 3
Claim - 3

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 $\frac{2}{-}$

DOK – 3
Claim - 3