

THE

Big  
Ten

Standards

Day 1    Division & Operations with Decimals

Day 2    Expressions and the Distributive Property

Day 3    Equations and Area

Day 4    Statistics and Surface Area and Volume

Day 5    Unit Conversions and Operations with Fractions

Oct 19-10:10 AM

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Standards

I can divide multi-digit numbers.

**Day 1**

How many boxes are needed if you pack 10,674 cans into boxes with 18 cans each?

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I can add, subtract, multiply, and divide decimal numbers.

Evaluate the following.

$$25.253 \div 0.5$$

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I can write, evaluate, and find equal expressions.

**Day 2**

Evaluate the following expression?


$$(4 + 12) - 5^2 \div 5 \times 3$$

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I can use the distributive property to write equal expressions.

Simplify the following expression:

$$3x + 6(2x + 3) - 2x + 5 - 6x - 10$$



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I can write and solve 1 step equations.

**Day 3**


Solve the following equation.

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

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I can find the area of complex shapes.

6 cm



4cm

If the length and width increase by a factor of 3, determine whether each statement about the area of the rectangle is True or False.

Statement	True	False
The area would increase by a factor of 3.		
The area would increase by a factor of 9.		
The area would decrease by a factor of 3.		
The area would increase by a factor of 8.		

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**THE Big Ten Standards** Day 4

I can find the mean, median, mode, and range given a set of numbers. Draw a box and whisker plot of the data given below.

Time Spent Watching Television					
42	35	60	75	40	65
90	115	120	85	70	48
90	50	54	70	68	45
75	120	90	80	75	115
20	30	35	120	45	60

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I can find the surface area and volume of 3D figures made of rectangles and triangles.

3 Part 1

A tissue box is shaped like a rectangular prism. The length is 7 inches, the width is 2 inches, and the height is 4 inches.

What is the surface area of the box?

square inches

Enter a number like 250.

Part 2

Determine whether each statement is true or false.

Statement	True	False
If the dimensions of the rectangular prism are doubled, the surface area will increase 2 times.	<input type="radio"/>	<input type="radio"/>
If the dimensions of the rectangular prism are doubled, the surface area will increase 4 times.	<input type="radio"/>	<input type="radio"/>
If the length of each dimension of the rectangular prism is cut in half, then surface area will be $\frac{1}{4}$ of the original surface area.	<input type="radio"/>	<input type="radio"/>
If the dimensions of the rectangular prism are tripled, the surface area will increase 3 times.	<input type="radio"/>	<input type="radio"/>

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**THE Big Ten Standards** Day 5

I can convert units of measurement.

Write the unit rate.  
\$480 in 6 hours

How much money would he make if he worked 8 hours? How much money would he make in a 40 Hour Week? How much would he make in a year working 40 Hour weeks?

Oct 19-10:23 AM

I can add, subtract, multiply, and divide fractions and mixed numbers.

Thomas has a case which is in the shape of a rectangular prism with a length of 6 centimeters, a width of  $3\frac{1}{3}$  centimeters, and a height of 2 centimeters.

What is the volume of the case, in cubic centimeters?

How many cubes with edge lengths of  $\frac{1}{3}$  centimeter could fit in the case?

Oct 19-10:28 AM

Apr 20-9:17 AM