

**Data Head**

The slopes of perpendicular lines are:

- a) reciprocals
- b) the same
- c) opposites
- d) opposite reciprocals

**Data Head**

The  $\sqrt{x}$  is equivalent to:

- a)  $x^{-1}$
- b)  $x^2$
- c)  $x^{1/2}$
- d)  $x^{-1/2}$

**Data Head**

The solution to the system

$$x + 2y = 0$$

$$3x + 4y = 2 \text{ is:}$$

- a) (2, -1)
- b) (2, 1)
- c) (1, 2)
- d) (1, -2)

**Data Head**

The area of a trapezoid is found by the formula:

- a)  $b \cdot h$
- b)  $\frac{1}{2}b \cdot h$
- c)  $\pi r^2$
- d)  $\frac{1}{2}h(b_1 + b_2)$

**Data Head**

Which of the following functions models exponential decay?

- a)  $y = 3^x$
- b)  $y = \frac{1}{2}x$
- c)  $y = \left(\frac{1}{2}\right)^x$
- d)  $y = -x^{1/2}$

**Data Head**

The diagonal of a square with sides of 2 ft is:

- a)  $2\sqrt{2}$  ft
- b) 4 ft
- c)  $\sqrt{2}$  ft
- d)  $2\sqrt{3}$  ft

**Data Head**

Which of the following is NOT a perfect square trinomial

- a)  $x^2 + 8x + 16$
- b)  $x^2 - 12x + 36$
- c)  $x^2 - 10x - 25$
- d)  $x^2 + 14x + 49$

**Data Head**

The area of an equilateral triangle with sides of 8 inches is:

- a)  $48 \text{ in}^2$
- b)  $16\sqrt{3} \text{ in}^2$
- c)  $4\sqrt{12} \text{ in}^2$
- d)  $64 \text{ in}^2$

***DATAHEAD***



**ALGEBRA/GEOMETRY  
CRANIUM**

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### **Sensograph**

Sketch the graph of the following function,  
**without looking at the paper!**

$$y = \frac{1}{2}x + 2$$

### **Sensograph**

Sketch the graph of the following function,  
**without looking at the paper!**

$$y = \sqrt[3]{x}$$

### **Sensograph**

Sketch the graph of the following function,  
**without looking at the paper!**

$$y = |x|$$

### **Sensograph**

Sketch the graph of the following function,  
**without looking at the paper!**

$$y = \sqrt{x}$$

### **Sensograph**

Sketch the graph of the following function,  
**without looking at the paper!**

$$y = \frac{1}{x}$$

### **Sensograph**

Sketch the graph of the following function,  
**without looking at the paper!**

$$y = -2x + 2$$

### **Sensograph**

Sketch the graph of the following function,  
**without looking at the paper!**

$$y = x^3$$

### **Sensograph**

Sketch the graph of the following function,  
**without looking at the paper!**

$$y = 2^x$$

***SENSOGRAPH***



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***SENSOGRAPH***



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***SENSOGRAPH***



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## Sculpturific

Using the modeling clay, sculpt a model of the following **without using gestures, drawing or without talking!**

### Graphing Calculator

## Sculpturific

Using the modeling clay, sculpt a model of the following **without using gestures, drawing or without talking!**

### Pythagorean Theorem

## Sculpturific

Using the modeling clay, sculpt a model of the following **without using gestures, drawing or without talking!**

### Square Root

## Sculpturific

Using the modeling clay, sculpt a model of the following **without using gestures, drawing or without talking!**

### Mobius Strip

## Sculpturific

Using the modeling clay, sculpt a model of the following **without using gestures, drawing or without talking!**

### Hemisphere

## Sculpturific

Using the modeling clay, sculpt a model of the following **without using gestures, drawing or without talking!**

### Circle Graph

## Sculpturific

Using the modeling clay, sculpt a model of the following **without using gestures, drawing or without talking!**

### Number Line

## Sculpturific

Using the modeling clay, sculpt a model of the following **without using gestures, drawing or without talking!**

### Scatterplot

***SCULPTURIFIC***



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***SCULPTURIFIC***



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CRANIUM**

***SCLUPTURIFIC***



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***SCULPTURIFIC***



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***SCULPTURIFIC***



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**Performing Arts**

Act out the mathematical term or concept below using only gestures. **No talking allowed!**

**Pentagon**

**Performing Arts**

Act out the mathematical term or concept below using only gestures. **No talking allowed!**

**Median**

**Performing Arts**

Act out the mathematical term or concept below using only gestures. **No talking allowed!**

**Area of a Circle**

**Performing Arts**

Act out the mathematical term or concept below using only gestures. **No talking allowed!**

**Bargraph**

**Performing Arts**

Act out the mathematical term or concept below using only gestures. **No talking allowed!**

**Perimeter of a Triangle**

**Performing Arts**

Act out the mathematical term or concept below using only gestures. **No talking allowed!**

**Reciprocal**

**Performing Arts**

Act out the mathematical term or concept below using only gestures. **No talking allowed!**

**Order of Operations**

**Performing Arts**

Act out the mathematical term or concept below using only gestures. **No talking allowed!**

**System of Equations**

***PERFORMING  
ARTS***



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**Spelly Cat**

Spell the following term *backwards*  
**without writing!**

**Division**

**Spelly Cat**

Spell the following term *backwards*  
**without writing!**

**Function**

**Spelly Cat**

Spell the following term *on the first try*  
**without writing!**

**Asymptote**

**Spelly Cat**

Spell the following term *on the first try*  
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**Perpendicular**

**Spelly Cat**

Spell the following term *backwards*  
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**Theorem**

**Spelly Cat**

Spell the following term *backwards*  
**without writing!**

**Rhombus**

**Spelly Cat**

Spell the following term *on the first try*  
**without writing!**

**Reciprocal**

**Spelly Cat**

Spell the following term *on the first try*  
**without writing!**

**Trigonometry**

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