

Research for the Math and Science Game

Use the listed web sites to find the equations that you will need to answer the questions listed and the answers for the math and science game.

Math:

Use the web site <http://library.thinkquest.org/20991/gather/formula/> to find the following formulas, and then use the formulas to find the answers to the problems.

Pythagorean Theorem

Circumference of a Circle

Area of a Square

Area of a Rectangle

Area of a Circle

Area of a Triangle

Volume of a Cube

Volume of a Sphere

Surface Area of a Cube

Slope of a line

Fahrenheit to Celsius

Celsius to Fahrenheit

Celsius to Kelvin

Use the formulas to answer the following:

Pythagorean Theorem:

1. $A=6, B=3$
2. $A=4, B=8$

Circumference of a Circle

1. $R=7$

2. $R=12.7$

Area of a Square

1. $S=6$

2. $S=11.8$

Area of a Rectangle

1. $X=12, Y=5$

2. $X=16, Y=11$

Area of a Circle

1. $R=4.75$

2. $R=7$

Area of a Triangle

1. $B=5, H=7$

2. $B=8, H=15$

Volume of a Cube

1. $S=4$

2. $S=9$

Volume of a Sphere

1. $R=2$

2. $R=3$

Surface Area of a Cube

1. $S=3.75$

2. $S=5.25$

Slope of a Line

1. $P1=3,5 P2=6,8$

2. $P1=4,2 P2= -5,3$

Fahrenheit to Celsius

1. $F=65$

2. $F= -17$

Celsius to Fahrenheit

1. $C=15$

2. $C=52$

Celsius to Kelvin

1. $C= -23$

2. $C= -6$

Science:

Use the web site <http://www.middleschoolscience.com/formulas.pdf> to find the following formulas, and then use the formulas to find the answers to the problems.

Volume of a Solid

Speed

Pressure

Density

Acceleration

Use the formulas to answer the following:

Volume of a Solid

1. $H=4$, $L=3$, $W=5$
2. $H=5$, $L=4.8$, $W=6.5$

Speed

1. $D=34$, $T=12$
2. $D=54$, $T=8.5$

Pressure

1. $F=6$, $A=3.5$
2. $F=27$, $A=4.7$

Density

1. $M=32$, $V=17$
2. $M=44$, $V=3.76$

Acceleration

1. $FS=60$, $OS=0$, $T=20$
2. $FS=100$, $OS=15$, $T=32$