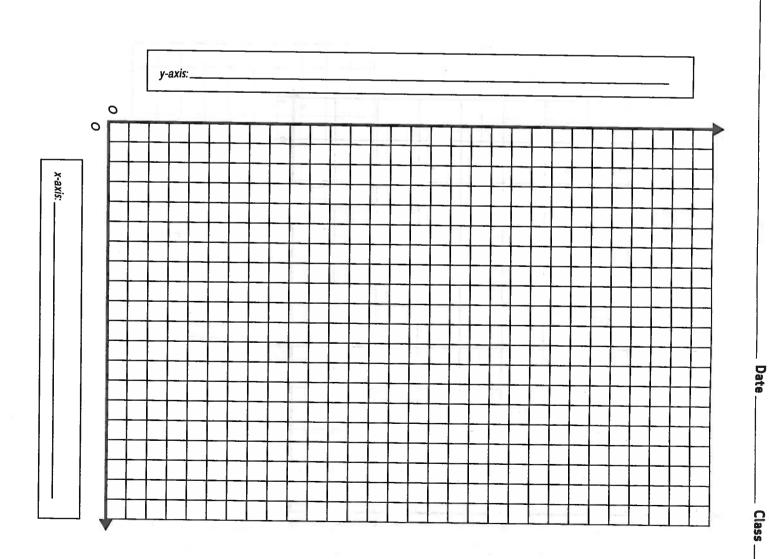
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340 Graphic Organizers

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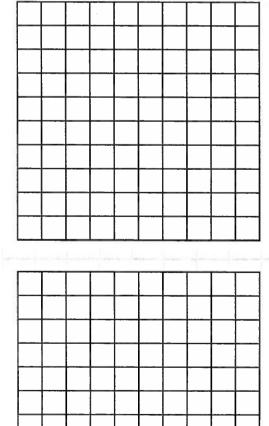
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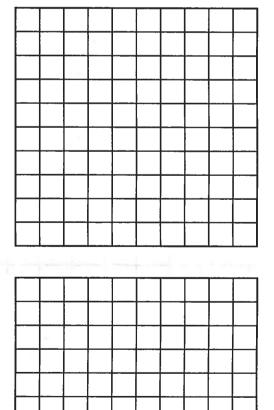
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ISOMETRIC DOT PAPER

MATHEMATICAL FORMULAS

				Volume of a						Surface Area of a	Circumference of a			Perimeter of a						Area of a
cone sphere	cylinder	square pyramid	cube	rectangular/ right prism	sphere	cone	cylinder	square pyramid	cube	rectangular/ right prism	circle	triangle	rectangle	square	circle	trapezoid	parallelogram	triangle	rectangle	square
Volume = $\frac{1}{3} \times \pi \times \text{radius}^2 \times \text{height}$ Volume = $\frac{4}{3} \times \pi \times \text{radius}^3$	Volume = $\pi \times \text{radius}^2 \times \text{height; } \pi \text{ is approximately equal to } 3.14$	Volume = $\frac{1}{3}$ × (base edge) ² × height	Volume = edge ³	Volume = length \times width \times height	Surface Area = $4 \times \pi \times \text{radius}^2$	Surface Area = $(\pi \times \text{radius} \times \text{height of slant}) + (\pi \times \text{radius}^2)$	Surface Area = $(2 \times \pi \times \text{radius} \times \text{height}) + (2 \times \pi \times \text{radius}^2)$; π is approximately equal to 3.14	Surface Area = $(\frac{1}{2} \times \text{perimeter of base} \times \text{height of slant})$ + (base edge) ²	$6 \times side^2$	Surface Area = $2(length \times width) + 2(width \times height) + 2(length \times height)$	Circumference = $\pi \times$ diameter; π is approximately equal to 3.14	Perimeter = $side_1 + side_2 + side_3$	Perimeter = $2 \times length + 2 \times width$	Perimeter = $4 \times \text{side}$	Area = $\pi \times \text{radius}^2$; π is approximately equal to 3.14	Area = $\frac{1}{2}$ × (base ₁ + base ₂) × height	Area = base \times height	Area = $\frac{1}{2}$ × base × height	Area = length \times width	Area = $side^2$

Distance $distance = rate \times time$	Simple Interest = principal \times rate \times time	median = the middle value of a scores, and the average of the even number of ordered scores	Measures of Central Tendency mean = $\frac{x_1 + x_2 +}{n}$ for which a mean is values for x	Quadratic Equations standard form of a quadratic equation	Pythagorean Relationship $a^2 + b^2 = c^2$; in a rithe hypotenuse	point-slope form of t $y - y_1 = m (x - x_1)$	Coordinate Geometry (x_1, y_1) and (x_2, y_2) and		
ime	× rate × time	median = the middle value of an odd number of ordered scores, and the average of the two middle values of an even number of ordered scores	mean = $\frac{x_1 + x_2 + + x_n}{n}$, where the x's are the values for which a mean is desired, and n is the total number of values for x	standard form of a quadratic equation $ax^2 + bx + c = 0$ quadratic formula $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$	$a^2 + b^2 = c^2$; in a right triangle, a and b are legs, and c is the hypotenuse	point-slope form of the equation of a line $y-y_1=m~(x-x_1)$, when m is the slope of the line	slope-intercept form of the equation of a line $y = mx + b$, when m is the slope of the line and b is the y -intercept	slope of a line = $\frac{y_2-y_1}{x_2-x_1}$; (x_1,y_1) and (x_2,y_2) are two points on the line	(x_1, y_1) and (x_2, y_2) are two points in a plane.

TI-30XS MULTIVIEWTM CALCULATOR REFERENCE SHEET

Operations Order of

the expression is entered. expressions using the Order of Operations based on how The TI-30XS MultiViewTM automatically evaluates numerical

> is 23. The correct answer

Example

 $12 \div 2 \times 3 + 5 =$

1 2 - 2 W 5 enter

Note that the 2 is **not** multiplied to the 3 before division occurs.

Decimals

To calculate with decimals, enter the whole number, then blacket then the fractional part.

The correct answer

Example

11.526 + 5.89 - 0.4 =

5 2 6

0 4 enter

The decimal point helps line up the place value.

To calculate with fractions, use the 😭 button. The answer will automatically be in its simplest form.

The correct answer

Example

7 → 4 = 5 S T

2 (1) 4 5 Sto enter

This key combination works if the calculator is in Classic mode or $\mathsf{MathPrint}^\mathsf{TM}$ mode.

Mixed Numbers

button. To see the fraction as an improper fraction, don't To calculate with mixed numbers, use the 📶 տ buttons in sequence below.

> is 39<u>13</u>. The correct answer

Example

press the

 $8\frac{2}{3} \times 4\frac{3}{5} =$ 8

2

W

4 2nd

3 1 5

MathPrint™ mode. This key combination only works if the calculator is in

Percentages

then 2md

 $72\% \times 500 =$

To calculate with percentages, enter the percent number,

The correct answer

To calculate with powers and roots,

Powers & Roots

use the 🔊 and 🕋

buttons for powers and the (2m) and 2nd

Example

buttons for roots.

2 1 (1) (enter)

28 = Example

.

The correct answer

ß.

The correct answer

is 441.

The correct answer

2 8 enter

Example

 $\sqrt{729} =$ 2nd X2 7 2 9 enter

√16807 = Example

1680 7 enter

œ.

The correct answer

buttons to also

5 2nd

compute squares and square roots. You can use the 2nd x² and 2nd

Scientific Notation

in the mode menu.

Example

well as make sure your calculator is To calculate in scientific notation, use the 🐠 button as in Scientific notation

is 1.2011×10^5 .

The correct answer

 $6.81 \times 10^4 + 5.201 \times 10^4 =$ 6 10⁻

5 . 2 0 1 4 sto • (a)

In MathPrintTM mode, you can use the toggle button change back to Normal in the mode When you are done using scientific menu.

notation, make sure to

to switch back and forth from exact

roots, π , etc.) and decimal approximations.

answers (fractions, The correct answer is 0.428571429.

Example $\frac{3}{7} =$

W 7 enter 1

from an exact answer without reentering the expression. button 🐽 immediately to get a decimal approximation If an exact answer is not required, you can press the toggle