

Hidden Message

Solve the problems below. Then, convert the numbers to letters. Can you find the message?

Number Key:

1	2	3	4	5	6	7	8	9	0
A	E	I	O	U	G	R	S	T	Y

--- The sum of all prime numbers < 25

10 → _____

--- The remainder of $1444 \div 6$

→ _____

--- Number of sides in a pentagon

→ _____

--- $55 \times 55 \times 55 =$

1 6375 _____

--- $\frac{22}{33} = \frac{Z}{6}$ $Z = ?$

→ _____

--- Base₃ $100 = ?$ (in base 10)

→ _____

--- $10^X = 1000$ $X = ?$

→ _____

--- The middle digit of

$$\begin{array}{r} 12345 \\ \times 54321 \\ \hline \end{array}$$

→ _____

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1	2	3	4	5	6	7	8	9	0
A	E	I	O	U	G	R	S	T	Y

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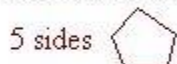
---The sum of all prime numbers < 25

$$2 + 3 + 5 + 7 + 11 + 13 + 17 + 19 + 23 = 100$$

---The remainder of $1444 \div 6$

$$\begin{array}{r} 240 \text{ R } 4 \\ 6 \overline{)1444} \\ \underline{12} \\ 24 \\ \underline{24} \\ 04 \end{array}$$

---Number of sides in a pentagon



--- $55 \times 55 \times 55 = 166375$

--- $\frac{22}{33} = \frac{Z}{6}$ $Z = ?$ $Z = 4$

--- Base $_3 100 = ?$ (in base 10)
 base 3: 0, 1, 2, 10, 11, 12, 20, 21, 22, 100
 base 10: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9

--- $10^X = 1000$ $X = ?$ $10^3 = 1000$

--- The middle digit of

$$\begin{array}{r} 12345 \\ \times 54321 \\ \hline 670592745 \end{array}$$

↑
middle digit

"You
Got
It!!"

10 0 → Y

4 → O

5 → U

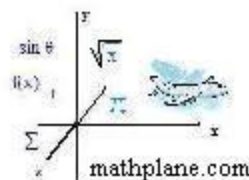
166375 → G

4 → O

9 → T

3 → I

9 → T



Hidden Message

Hint: 30 and 390

Solve the following math questions. Then, convert the numbers into letters to find the hidden message.

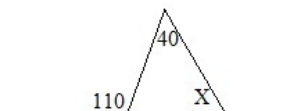
Letter Key:

0	1	2	3	4	5	6	7	8	9
C	E	G	I	L	M	N	O	R	T

1) The slope of a line passing through (3,3) and (7, 3)

 → _____

2) Find X:


 0 → _____

3) Let g = # of g's in above directions box $d^g =$
 Let d = # of d's in above directions box

 → _____

4) $\log 10 =$

 → _____

5) $\frac{\text{Sides of a hexagon}}{\text{Sides of a triangle}} \cdot (\text{sides of a quadrilateral}) =$

 → _____

6) $\frac{5!}{4!} =$

 → _____

7) What is the reference angle of 150° ?

 0 → _____

8) 150% of 4

 → _____

9) FREE SPACE

 free space → **A**

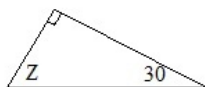
10) $|-2 - 2| =$

 → _____

11) FREE SPACE

 free space → **A**

12) Find Z:


 0 → _____

13) $\frac{\sqrt{8}}{\sqrt{2}} =$

 → _____

14) The middle digit of 123×321

 → _____

15) $p(\text{event A occurs}) + p(\text{event A does NOT occur}) =$

 → _____

16) FREE SPACE

 free space → **S**

Hidden Message

Hint: 30 and 390

Solve the following math questions. Then, convert the numbers into letters to find the hidden message.

Letter Key:

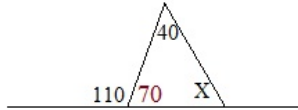
0	1	2	3	4	5	6	7	8	9
C	E	G	I	L	M	N	O	R	T

SOLUTIONS

1) The slope of a line passing through (3,3) and (7, 3) It's a horizontal line -- slope = 0

0 → C

2) Find X:



X = 70
sum of angles of triangle = 180
supplementary angles add up to 180

70 → O

3) Let g = # of g's in above directions box
Let d = # of d's in above directions box

$$d^g = 3^2 = 9$$

9 → T

4) $\log 10 = 1$ $10^1 = 10$

1 → E

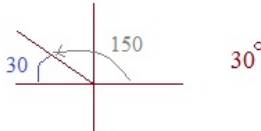
5) $\frac{\text{Sides of a hexagon}}{\text{Sides of a triangle}} \cdot (\text{sides of a quadrilateral}) = \frac{6}{3} \cdot 4 = 8$

8 → R

$$6) \frac{5!}{4!} = \frac{5 \times 4 \times 3 \times 2 \times 1}{4 \times 3 \times 2 \times 1} = 5$$

5 → M

7) What is the reference angle of 150° ?



30 → I

8) 150% of 4 100% of 4 is 4
50% of 4 is 2
total: 6 or, $1.50 \times 4 = 6$

6 → N

9) FREE SPACE

free space → A

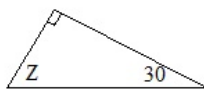
10) $|-2 - 2| = |-4| = 4$

4 → L

11) FREE SPACE

free space → A

12) Find Z:



Z = 60

60 → N

$$13) \frac{\sqrt{8}}{\sqrt{2}} = \frac{2\sqrt{2}}{\sqrt{2}} = 2$$

2 → G

14) The middle digit of $123 \times 321 = 39483$ middle digit is 4

4 → L

15) $p(\text{event A occurs}) + p(\text{event A does NOT occur}) = 1$

1 → E

16) FREE SPACE

free space → S

