

Super Bowl XLVI

Pre-game Math Puzzle

Topics include factorials, logarithms, shapes, exponents, multiplication, and more.

Hidden Message

Clue: "Big Player"



Letter Key:

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

Solve the twelve problems below. Then, convert the numbers to letters to reveal the answer!

1) $\log 10$

 → _____

2) $\frac{6!}{5!2!}$

 → _____

3) The additive identity

 → _____

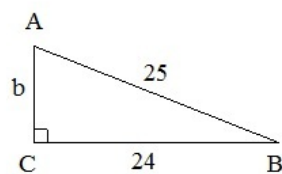
4) 250% of 2

 → _____

5) The least common multiple of 1, 3, and 9

 → _____

6) The length of b:

 → _____

7) $X^y = 1$ $X \neq 0$
What is y?

 → _____

8) Middle digit of $22 \times 33 \times 44$

 → _____

9) $\frac{\text{The \# of 'e's in the directions box}}{\text{The \# of 'm's in the directions box}} =$

 → _____

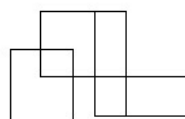
10) $\frac{2^2 + 2}{2} =$

 → _____

11) $|-2 - 4| =$

 → _____

12) How many different quadrilaterals are in the figure?

 → _____

Roman numerals 2/5/2012
and applications
example: 46

XLVI

"Look over the quiz again.
Practice, practice, practice."

"I have a question
about Sunday's
assignment."

Mr. Canton
3rd Grade Math
Pop Quiz

Name Joey Namath

A-

What is the difference between 6 and 7?

1

An extra point

Express "one quarter" as a fraction.

1/4

15 minutes

Football game

Write five multiples of 6.

OK

1 touchdown, 2 touchdowns, etc.

or 6, 12, 18, 24, 30

What is the area of a rectangle with length 53 yards
and width 10 yards?

$53 \times 10 = 530$ sq. yds the endzone

What is 12 out of 30?

12/30 = 40%

A bad passing day.

"NFL"
Math Test

Fortunately, Mr. Canton was a football fan as
well as a math teacher (with a sense of humor).

Hidden Message

Clue: "Big Player"



Letter Key:

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

Solve the twelve problems below. Then, convert the numbers to letters to reveal the answer!

SOLUTIONS

1) $\log_{10} 10 = X \Rightarrow 10^X = 10 \quad X = 1$

1 → G

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

3 → I

3) The additive identity zero.. $X + 0 = X$

0 → A

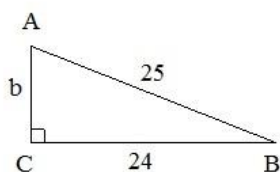
4) 250% of 2 $2.50 \times 2 = 5$

5 → N

5) The least common multiple of 1, 3, and 9 LCM is 9..

9 → T

6) The length of b:



$b = 7$
(7-24-25: 'special right triangle')

Pythagorean Theorem:
 $7^2 + 24^2 = 25^2$

7 → P

7) $X^y = 1 \quad X \neq 0$
What is y? $y = 0$ EX: $X = 7$
 $7^0 = 1$

0 → A

8) Middle digit of $22 \times 33 \times 44 = 31944$ (the middle digit is 9)

9 → T

9) $\frac{\text{The \# of 'e's in the directions box}}{\text{The \# of 'm's in the directions box}} = \frac{16 \text{ e's}}{2 \text{ m's}} = 8$ (see above)

8 → R

10) $\frac{2^2 + 2}{2} = \frac{4 + 2}{2} = 3$

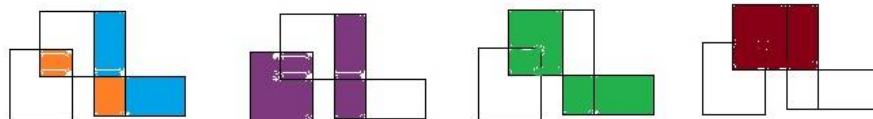
Big Player?
(NY) (NE)
"GIANT PATRIOT"

3 → I

11) $|-2 - 4| = |-6| = 6$

6 → O

12) How many different quadrilaterals are in the figure?



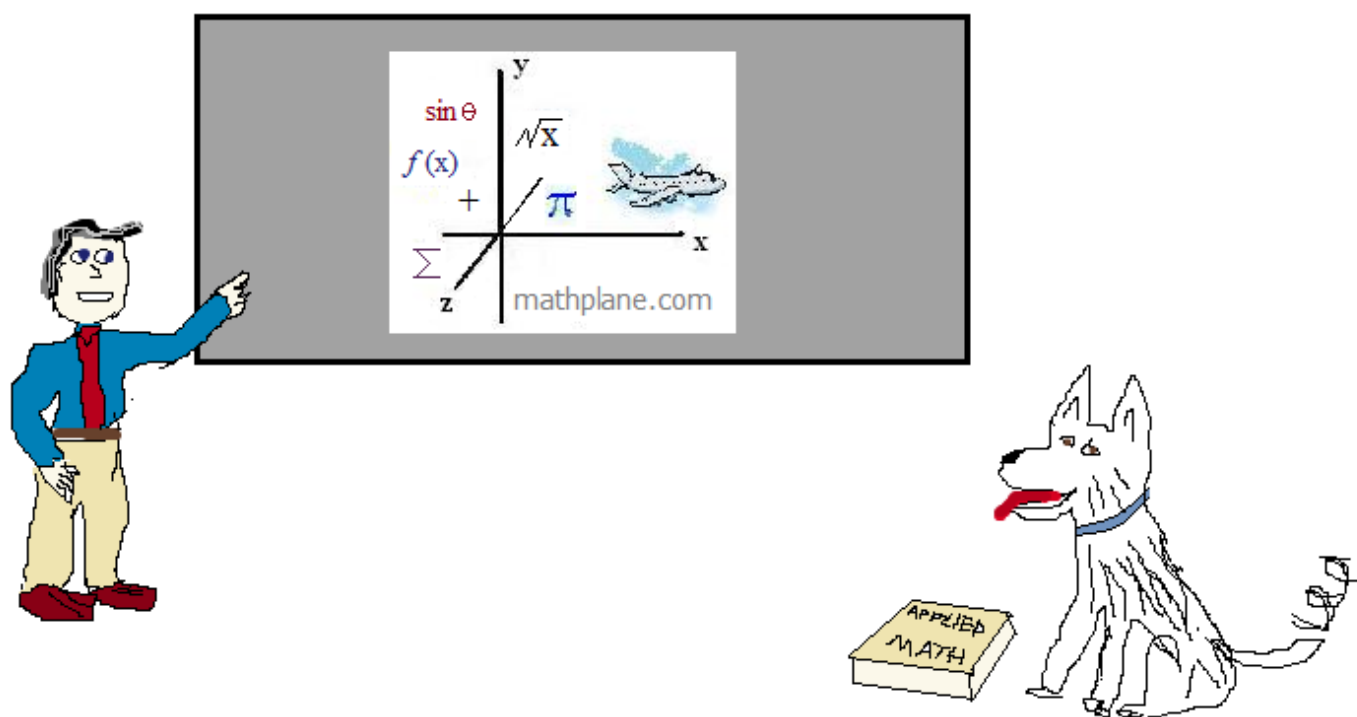
four + two + two + one = nine

9 → T

Thanks for visiting!

If you have questions, suggestions, or requests, let us know.

Enjoy



Find more puzzles, comics, and math resources at mathplane.com

Hidden Messages II

MATH PUZZLES

Constructed by
Lance
Friedman

Letter Key:

0	1	2	3	4	5	6	7	8	9
A	D	E	I	N	O	P	R	S	T

mission?"

2 =

3 - 1 =

$6^2 \div 3^2 =$

$\frac{-4+1)(6+4-1)}{3} =$

$19 - 2^3 =$

A grid of 10 empty boxes with arrows pointing to the right, intended for the user to write the answers to the math problems.