

# The Fantastic Formula

1. Determine, by any convenient method, the value of each of the twenty-five variables below.
2. Substitute the value for each variable into the right-hand side of the equation and perform all indicated arithmetic operations. Use the correct order of operations!

$$Z = \frac{\sqrt{\frac{fs}{\left(\frac{j}{p+m}\right)} + (a-g)(r-l) + i \bullet o + w}}{t - \frac{y}{\left(\frac{n}{q}\right)} - \left( h - \frac{d-e}{f} + \frac{k-c}{u-v-x-x-t} - (x-b)^i \right)}$$

a = normal body temperature in Celsius

b = the length of a side of a cube whose volume is 125 cm<sup>3</sup>

c = the value of 1F (base sixteen) in base ten

d = the base ten value of 5736 in base eight

e = the number of piano keys

f = the senses + the Great Lakes

g = (books in a trilogy) x (points in the Star of David)

h = fourscore x starting members of a basketball team

i = degrees in a circle ÷ degrees in a right angle

j = Snow White's dwarfs + \_\_\_\_ *Days in May* (book title)

k = floor left out in most hotels x \_\_\_\_ seas

l = alphabet's letters x dots in a colon

m = "A stitch in time saves \_\_\_\_\_"

n = freezing point of water (in Fahrenheit)

o = notes in an octave + known planets (including Pluto)

p = musketeers x baker's dozen

q = books of the Bible - golden anniversary

r = blackbirds baked in a pie + golf course holes + two decades

s = bits in a half dollar x days in a week

t = field goal - safety (in football)

u = human adult's teeth + lucky number + original colonies + Wilson's points

v = Gospels + the Commandments + The Disciples

w = the R's + legs of a bovine

x = wisdom teeth x each state's senators to the U.S. Congress

y = checkerboard squares - Presidents on Mount Rushmore

Answers:

$$a = 37$$

$$b = 5$$

$$c = 31$$

$$d = 3038$$

$$e = 88$$

$$f = 10$$

$$g = 18$$

$$h = 400$$

$$i = 4$$

$$j = 14$$

$$k = 91$$

$$l = 52$$

$$m = 9$$

$$n = 32$$

$$o = 17$$

$$p = 39$$

$$q = 16$$

$$r = 62$$

$$s = 28$$

$$t = 1$$

$$u = 66$$

$$v = 26$$

$$w = 7$$

$$x = 8$$

$$y = 60$$

$$z = 7$$

The Fantastic Formula by David Pleacher

*The V<sup>2</sup>CTM Reflection*

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