

MTH 60 group work - formulas

Please work all of these problems on your own paper. Complete solutions will be on my website Friday night.

1. Solve each formula for the specified letter.

a. Solve $a = b + c + d$ for b .

b. Solve $a = bcd$ for b .

c. Solve $a = \frac{b}{3}(c + d)$ for b .

d. Solve $a = bc + d$ for b .

e. Solve $a = b + cd$ for b .

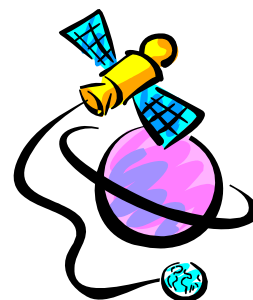
f. Solve $a = \frac{b}{3}(c + d)$ for d .

g. Solve $a = \frac{bc}{d}$ for b .

h. Solve $a = \frac{b}{c} + d$ for b .

2. The Spuntick satellite is on a journey through our solar system. Spuntick cruises at a constant speed of 35,466 mph. The distance from Jupiter to Saturn is about 4.0×10^8 miles. How many *years* did it take Spuntick to fly from Jupiter to Saturn? Round your solution to the nearest tenth.

Show the units in all of your calculations.



3. For a certain trapezoid the area is 100 cm^2 , the length of one base is 5 cm, and the height is 4 cm. Use the formula $A = \frac{1}{2}h(b_1 + b_2)$ to determine the length of the other base showing work consistent with that illustrated in class.