

S.M.ART School MAC2 Homework. Due 05-24-2022

A1 If $12*m = 7*k$ and $7*n = 9*k$, find the ratio of m to n .

A2 If $m/n = 7/5$ and $n/k = 125/21$, find the ratio of m to k .

A3 $3*c - 8*d = 0 - 13*c - 25*d$, what is the ratio of c/d ?

D1 What is the best way to compute the distance between points $M(-5, -5)$ and $N(5, 5)$?

D2 Find the distance between two points $A(3, 7)$ and $B(12, 7)$.

D3 Find the distance between two points A(0, 0) and B(12, 5).

D4 Compute the distance between points M(-3*C, C) and N(2*C, 5*C).

Solve equations

E1 $8^{x+3} = 2^{2*x-2}$

E2* $8^{x+3} = 4^{2*x-2}$

E3 $3^{x-2} = 27^{-x+4}$

W1 A farmer had to plough the field in 5 days. However, he increased his productivity by 2 acres a day; and then finished the job 1 day earlier than planned. What is the area of his field in acres?

W2 A man rowed 3 miles upstream in 90 minutes. If the river flowed with a current of 2 miles per hour, how long did the man's return trip take?

P1 Bank pays 3.8% annual interest. My account increased by \$418 for the year. How much do I have now on my account?

P2 Nancy's usual markup on merchandise is 35%. She made \$595, when sold the computer system. What was the final price of the system?

P3 If A is 60% greater than B, and C is 60% less than D, then $A \cdot C$ is X% of $B \cdot D$. How much is X?

P4 If length of rectangular is increased by 100% and width is decreased by 50%, what happens with the area?