

S.M.ART School

MAA7 Group; home work for MS32 due on 06-15-2019

Operations on Fractions

T1. $\frac{1}{2} * \frac{2}{3} * \frac{3}{4} * \frac{4}{5}$

T2 $\frac{1}{2} + \frac{5}{16} - 0.125$

T3 $\frac{1}{2} + \frac{1}{3} + \frac{1}{4}$

T4 $\frac{1}{2} + \frac{1}{3} - \frac{1}{4}$

T5 $a * (\frac{1}{a})$

T6 $(\frac{3}{4}) * (\frac{4}{5}) * (\frac{25}{9})$

G1 In 8 years Karl will be 3 times as old as he is now. How old is Karl? How long will it take for him to become 6 times older than he is now?

R1 George can wax a large truck in 5 hours working alone. Greg can do the same job in 4 hours. How long will it take them to wax the truck if they work together?

R2 By herself Mary can trim the fruit trees in 2 hours. Bill can do the same job himself in 4 hours. Working together, how long will it take them to trim the trees?

R3 Using the larger tractor, Don can plow a field in 3 hours. Using the smaller tractor he could plow the same field in 5 hours. If he has a friend drive the smaller tractor, how long will it take them to plow the field working together?



A1 How many inches in three feet?

How many inches in three yards?

How many inches in five yards?

How many inches in $5\frac{1}{2}$ yards?

How many inches in M yards?



A2 A tailor has a roll of silk M yards long. He has to cut off N feet from one side and K inches from the other. How many inches of silk will he have left?

Monomials

Definition of monomials

1. Any number is a monomial
2. Any variable is a monomial
3. When you multiply monomial by monomial – the result is also a monomial.

End of definition

M1 Under the above definition, explain why $(-14/3)*x*y^2$ is a monomial

M2 Is (a/b) a monomial?

M3 Is $(x + y)$ a monomial?

M4 Is $3*x^2 + 5*x^3/x$ a monomial?

M5 Is 0 a monomial?

We studied distributive property:

$$X*Y + X*Z = X*(Y + Z)$$

Distribute

$$D1 \quad 3 * (x^2 + x) =$$

$$D2 \quad 3 * x * (x^2 - x) =$$

$$D3 \quad a^2 (a^2 - a - b) =$$

G2

There are 250 people on a line outside a theater.
If Jack is the 25th person from the front, and
Jill is the 125th person from the front, how
many people are between Jack and Jill?