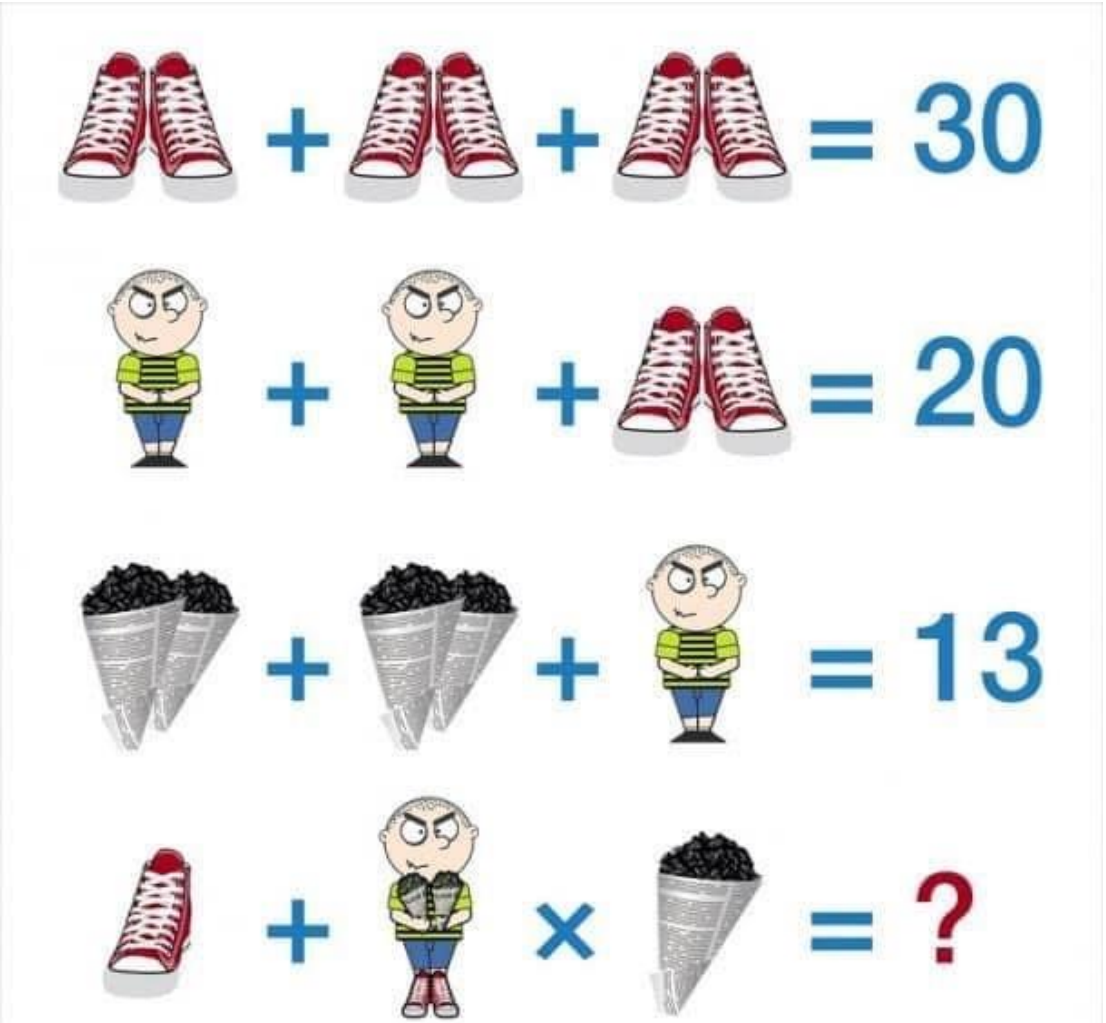
WHAT'S THE CALCULATION?

Year 6, I challenge you to solve these this puzzle:

What calculation is represented by the images on the last line? Make sure you calculate the correct answer too!

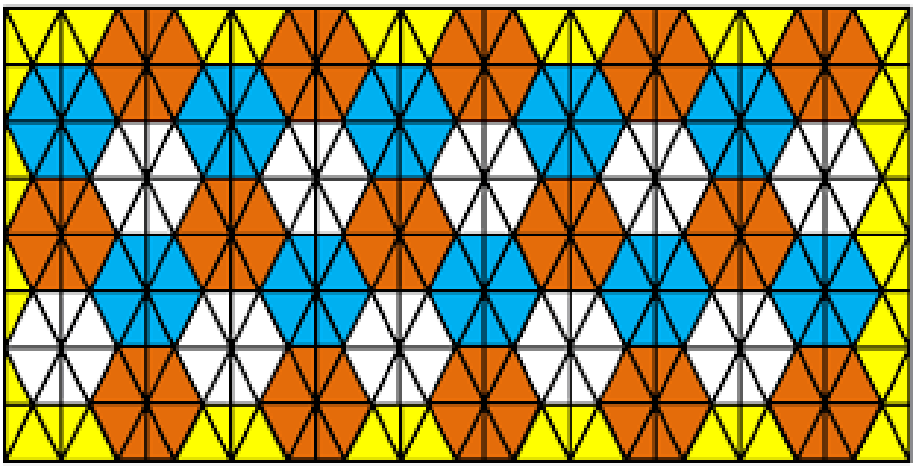


HOW MANY TRIANGLES WILL TESSELLATE?

Year 6, I challenge you to solve these two puzzles:

a) How many triangles with the three sides measuring 3cm, 4cm and 5cm can you fit inside a rectangle measuring 0.3m by 0.6m?

b) How many 1cm equilateral triangles can you fit inside a regular hexagon of side 5cm?



WHAT IS THE MYSTERY NUMBER?

Year 6, I challenge you to solve these two puzzles:

a) Find a four digit number such that the difference between its cube and its square root is 48.

b) Find a three digit number such that the difference between its cube root squared and its square root cubed in 19602.