Fun Friday Maths Challenge

The coloured shapes stand for eleven of the numbers from 0 to 12. Each shape is a different number.

Can you work out what they are from the multiplications below?

□ x □ x □ = ◖   ▮ x ▮ = ✳

□ x ⬭ = ◖   □ x ★ = ⬡

▮ x ⬭ = ●   ▮ x ◇ = ▮

▮ x □ = ▲   ◇ x ⬡ = ⬡

▲ x □ = ●   □ x ▼ = ▼

□ x □ = ⬭   ▼ x ◖ = ▼

Hint: Start with ▮ x ▮ x ▮ = ◗

The purple square **cannot <u>be 1</u>** because 1 x 1 x 1 = 1 but the total is a different number, not a purple square.

The purple square cannot be 3 because 3 x 3 x 3 = 27 (which is bigger than 12)

We can therefore be fairly sure that the purple square must be worth 2.

From this, you should be able to work out the value of the other shapes.

(Remember anything x 0 = 0!)

Remember only 11 numbers have been used out of the 13 digits.