

8th December



Corbettmaths

Simplify $\sqrt{175}$

$$5\sqrt{7}$$

There are red, green and white sweets in a bag, in the ratio 7:4:1.

A quarter of the green sweets are removed from the bag.
The green sweets that have been removed are replaced with an equal number of red and white sweets.

What is the ratio of red sweets to green sweets to white sweets now?

$$\begin{array}{r} \text{say} \quad 70 : 40 : 10 \\ \quad \quad R \quad G \quad W \\ \quad \quad -10 \\ \quad \quad 70 : 30 : 10 \\ \quad \quad R \quad G \\ \quad \quad +5 \quad \quad +5 \\ \quad \quad 75 : 30 : 15 \end{array}$$

$$(5 : 2 : 1)$$

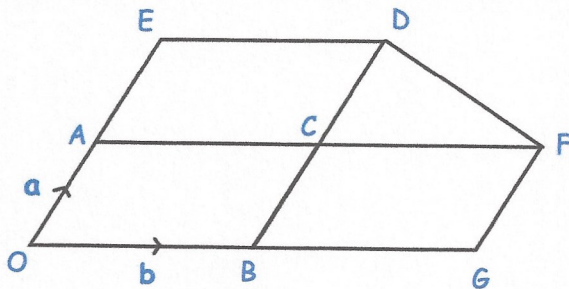
Gordon is building a wardrobe.

The wood costs 30% more than he had estimated.
He needs 40% more wood than he had estimated.

How much more than his original estimate does the the material for the wardrobe cost?

$$1.3 \times 1.4 = 1.82$$

$$82\%$$



Write down the vector for

\vec{OC}

$$\underline{a + b}$$

In the diagram OBDE and OAFG are parallelograms.

B is the midpoint of OG.

A is the midpoint of OE.

Write down the vector for

\vec{DF}

$$-\underline{a} + \underline{b}$$