

Conditions

Your measuring jug has only imperial measurements on the side. How much would you need in approximate imperial measurements (fluid ounces) to wash a very dirty load? 10 fluid ounces is equivalent to half a pint and 275 millilitres.

Very dirty=200 ml Reasonably dirty =160ml Not very dirty=140ml

Can someone help me solve this problem in a very simple way
thank you
uk measurements pls

Solution

If for washing 275 ml we need 10 fluid ounces, then for 1 ml we need:

$$\frac{10}{275} = \frac{2}{55}$$

For very dirty load we need:

$$\frac{2}{55} \cdot 200 = \frac{80}{11} \approx 7.27 \text{ ounces (or 8 ounces, rounded to the nearest appropriate integer)}$$

For reasonably dirty load we need:

$$\frac{2}{55} \cdot 160 = \frac{64}{11} \approx 5.82 \text{ ounces (or 6 ounces, rounded to the nearest appropriate integer)}$$

For not very dirty load we need:

$$\frac{2}{55} \cdot 140 = \frac{56}{11} \approx 5.09 \text{ ounces (or 6 ounces, rounded to the nearest appropriate integer)}$$