

- **Objective:** Add and subtract fractions with different denominators and mixed numbers using the concept of equivalent fractions

Year 6 Task:

18 This is a diagram of a vegetable garden.

It shows the fractions of the garden planted with potatoes and cabbages.

<p>potatoes $\frac{2}{3}$</p>	<p>cabbages $\frac{1}{4}$</p>	<p>Not to scale</p>
	<p>carrots</p>	

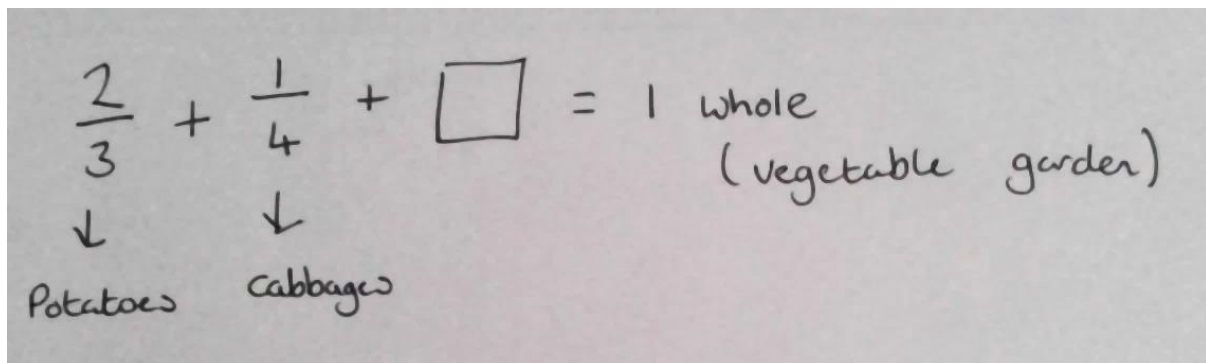
The remaining area is planted with carrots.

What **fraction** of the garden is planted with carrots?

KS2 SATs question

Open Government Licence v3.0 found on the National Archives website and accessed via the following link:
www.nationalarchives.gov.uk/doc/open-government-licence

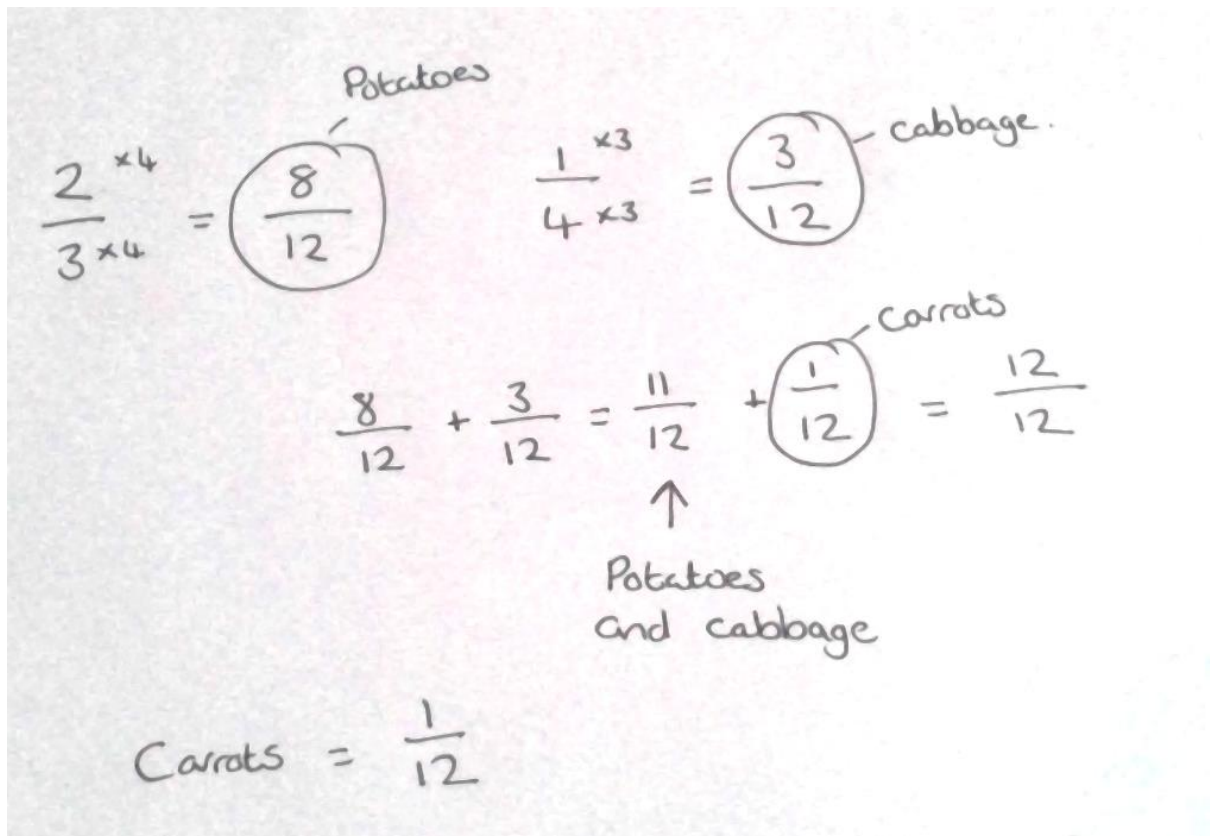
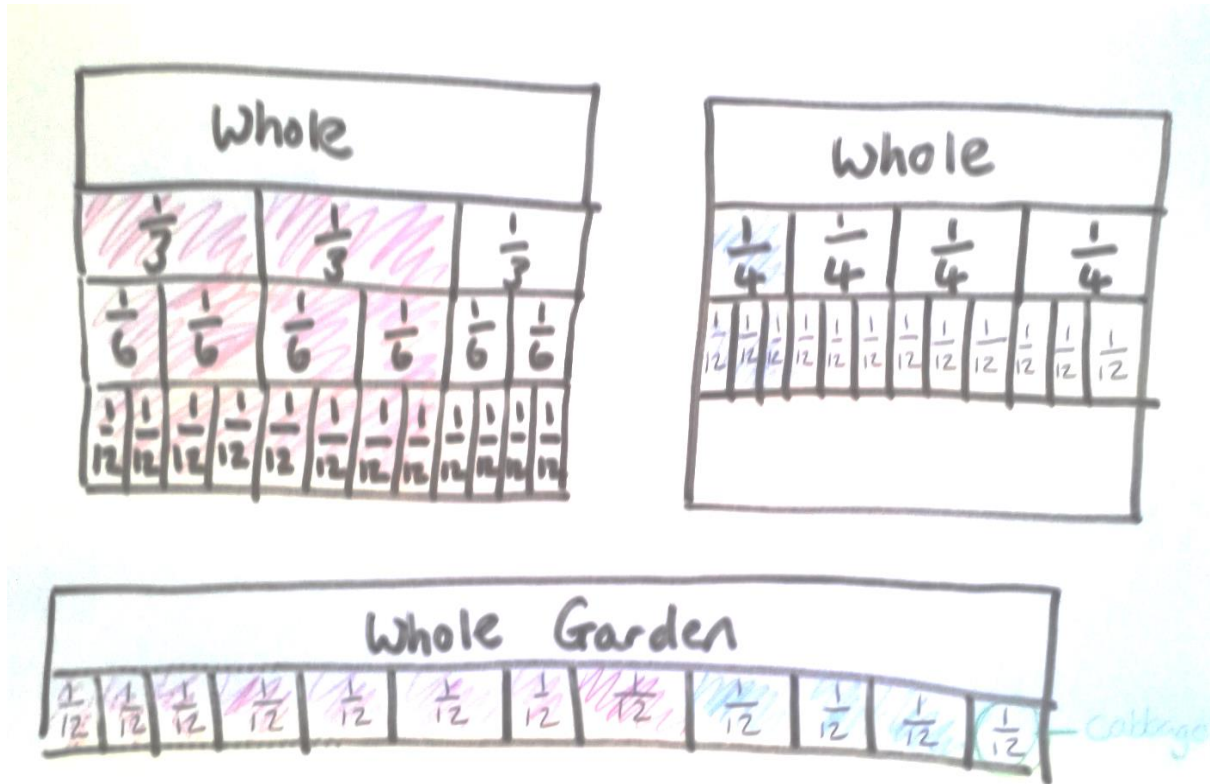
Worked example



$$\frac{2}{3} + \frac{1}{4} + \square = 1 \text{ whole (vegetable garden)}$$

↓ ↓

Potatoes Cabbages



Variation

What if $\frac{3}{5}$ of the vegetable garden was potatoes and $\frac{1}{10}$ of the garden was cabbages.
What fraction of the garden was carrots?

Show your workings here:

Answer: $\frac{3}{10}$ of the garden was carrots

What if $\frac{5}{8}$ of the vegetable garden was potatoes and $\frac{1}{3}$ of the garden was cabbages.

What fraction of the garden was carrots?

Show your workings here:

Answer: $\frac{23}{24}$ of the garden was carrots