


Can I calculate quantities? (Y4)

Reasoning and problem solving

This page does not need to be printed. In your book, write the short date you do the work as well as the above question, underlining them neatly with a ruler.

- 1)  The school kitchen needs to buy carrots for lunch.

A large bag has 200 carrots and a medium bag has $\frac{3}{5}$ of a large bag.

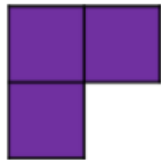
Mrs Rose says,

I need 150 carrots so I will have to buy a large bag.



Is Mrs Rose correct?
Explain your reasoning.

- 2) These three squares are $\frac{1}{4}$ of a whole shape.



How many different shapes can you draw that could be the complete shape?

- 3) If $\frac{1}{8}$ of A = 12, find the value of A, B and C.

$$\frac{5}{8} \text{ of } A = \frac{3}{4} \text{ of } B = \frac{1}{6} \text{ of } C$$

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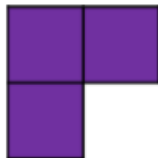
Explain your reasoning.

Mrs Rose is correct.

$$\frac{3}{5} \text{ of } 200 = 120$$

Mrs Rose will need a large bag.

These three squares are $\frac{1}{4}$ of a whole shape.



How many different shapes can you draw that could be the complete shape?

Lots of different possibilities. The shape should have 12 squares in total.

If $\frac{1}{8}$ of A = 12, find the value of A, B and C.

$$\frac{5}{8} \text{ of } A = \frac{3}{4} \text{ of } B = \frac{1}{6} \text{ of } C$$

$$\begin{aligned} A &= 96 \\ B &= 80 \\ C &= 360 \end{aligned}$$