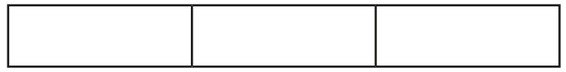
Non-unit fractions of a set of objects

White Rose MATHS

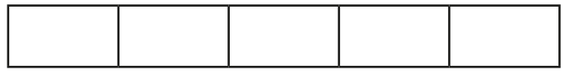
1 Draw counters in the bar models to help you complete each number sentence.

a) $\frac{2}{3}$ of 15 = ☐



b) $\frac{3}{4}$ of 8 = ☐

c) $\frac{2}{5}$ of 20 = ☐



2 Match the questions to the answers.

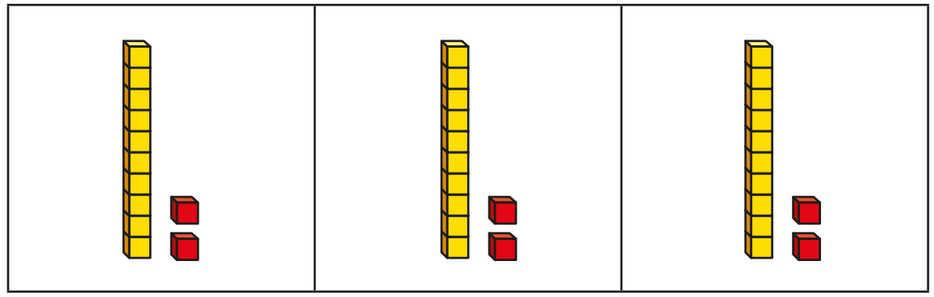
$\frac{2}{3}$ of 9 = ?	9
$\frac{3}{5}$ of 15 = ?	6
$\frac{5}{8}$ of 16 = ?	15
$\frac{3}{4}$ of 20 = ?	10

3 What is $\frac{6}{6}$ of 18?

How do you know?

☐

4 Brett uses a bar model and base 10 to find $\frac{2}{3}$ of 36



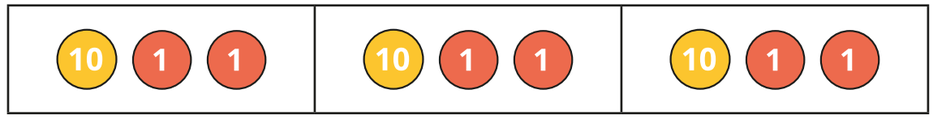
Use Brett's method to complete the number sentences.

a) $\frac{2}{3}$ of 63 = ☐

b) $\frac{3}{4}$ of 48 = ☐

c) $\frac{3}{4}$ of 92 = ☐

5 Kim uses a bar model and place value counters to find $\frac{2}{3}$ of 36



Use Kim's method to complete the number sentences.

a) $\frac{2}{3}$ of 96 = ☐

b) $\frac{3}{5}$ of 60 = ☐

c) $\frac{3}{4}$ of 52 = ☐

6 Find the fractions of the amounts.

a) $\frac{1}{8}$ of 40 = ☐

b) $\frac{2}{8}$ of 40 = ☐

c) $\frac{3}{8}$ of 40 = ☐

d) $\frac{4}{8}$ of 40 = ☐

e) $\frac{5}{8}$ of 40 = ☐

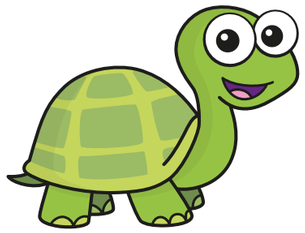
f) $\frac{6}{8}$ of 40 = ☐

g) $\frac{7}{8}$ of 40 = ☐

h) $\frac{8}{8}$ of 40 = ☐

What do you notice?

7 Tiny is finding $\frac{3}{4}$ of 12

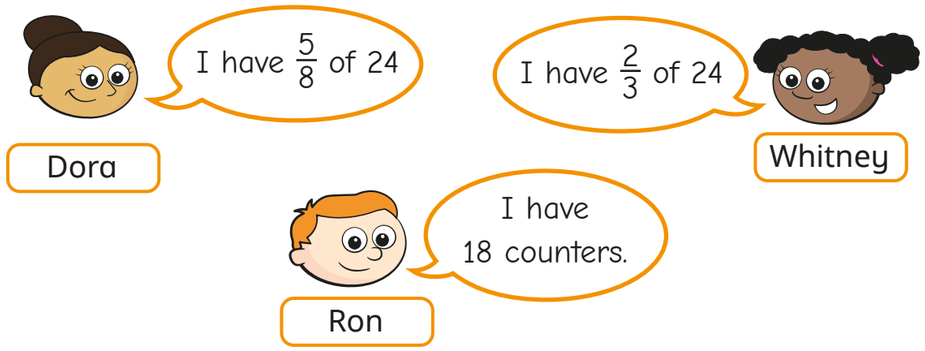


To find $\frac{3}{4}$ of 12,
I divide by 3 and then multiply the answer by 4

Do you agree with Tiny? _____

Explain your answer.

8 Dora, Whitney and Ron each have a fraction of 24 counters.



a) Who has the most counters? Show your workings.

b) How many more counters does Whitney have than Dora?

☐

9 Write fractions to make the statements correct.

☐ of 36 < 18

☐ of 36 = 18

☐ of 36 > 18

How many different answers can you find for each statement?

Compare answers with a partner.

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