

Fractions of a set of objects (2)

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

a) $\frac{2}{3}$ of 15 = 10



b) $\frac{3}{4}$ of 8 = 6



c) $\frac{2}{5}$ of 20 = 8



2 Match the questions and answers.

$\frac{2}{3}$ of 9 = ?

9

$\frac{3}{5}$ of 15 = ?

6

$\frac{5}{6}$ of 12 = ?

15

$\frac{3}{4}$ of 20 = ?

10

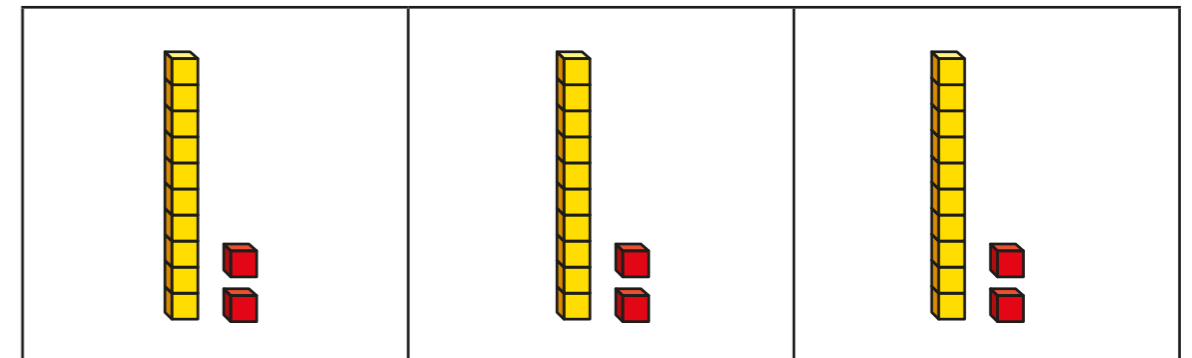
3 What is $\frac{6}{6}$ of 18?

18

How do you know?



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



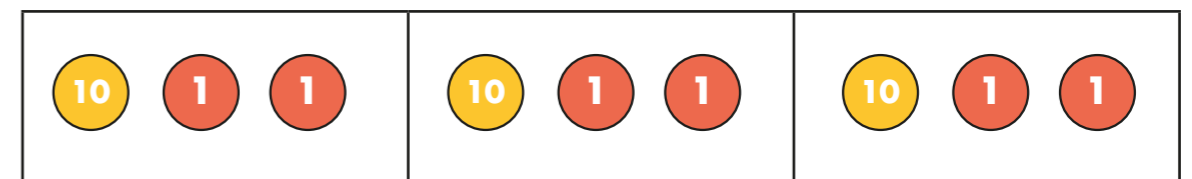
Use Brett's method to complete the number sentences.

a) $\frac{2}{3}$ of 63 = 42

b) $\frac{3}{4}$ of 48 = 36

c) $\frac{3}{4}$ of 92 = 69

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 = 64

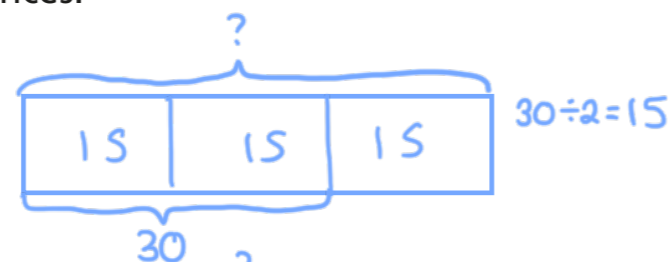
b) $\frac{3}{5}$ of 60 = 36

c) $\frac{3}{4}$ of 52 = 39

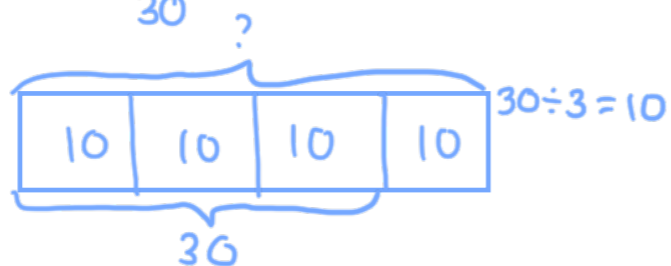


6 Complete the number sentences.

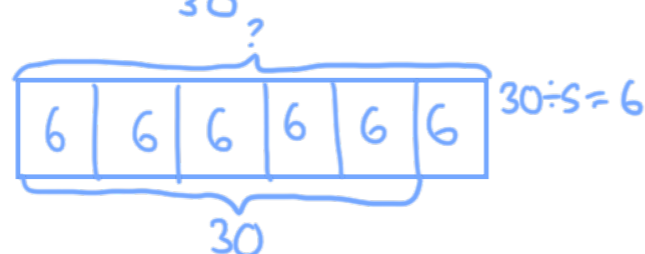
a) $\frac{2}{3}$ of 45 = 30



b) $\frac{3}{4}$ of 40 = 30



c) $\frac{5}{6}$ of 36 = 30



7



Tommy

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

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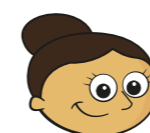


Dexter

Who is correct? Tommy

How do you know? Show your working.

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



Dora

I have $\frac{5}{6}$ of 24

I have $\frac{2}{3}$ of 24



Whitney



Ron

I have 18 counters.

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

$\frac{5}{6}$ of 24 = 20 $\frac{2}{3}$ of 24 = 16

Dora

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

$20 - 16 = 4$

4

9 Write fractions to make the statements correct.

e.g.
 $\frac{1}{6}$ of 36 < 18

$\frac{1}{2}$ of 36 = 18

$\frac{3}{4}$ of 36 > 18

How many different answers can you find for each?
Compare with a partner.