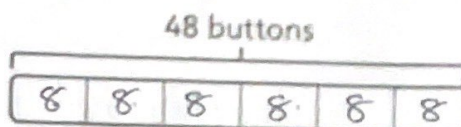


Calculating fractions of amounts

- 1 There are 48 buttons in a box. $\frac{5}{6}$ of the buttons are red and the rest are blue.

How many buttons are blue?



$$48 \div 6 = 8 \text{ so } \frac{1}{6} = 8$$

$$\frac{5}{6} = 8 \times 5 = 40$$

- 2 Andy won £720 in a competition. He gave $\frac{1}{3}$ of the money to his sister.

How much money did he have left?

$$\begin{array}{r} 240 \\ 3 \overline{) 720} \end{array}$$

$$\frac{1}{3} = 720 \div 3 = \pounds 240$$

Andy has $\frac{2}{3}$ left, so $2 \times \pounds 240 = \pounds 480$

- 3 Kate and Ebo each bake 60 cookies for charity. Kate sells $\frac{2}{3}$ of her cookies. Ebo sells $\frac{7}{12}$ of his cookies.

Who sells more cookies? How many more?

$$\text{Kate sells } 60 \div 3 = 20 \times 2 = 40$$

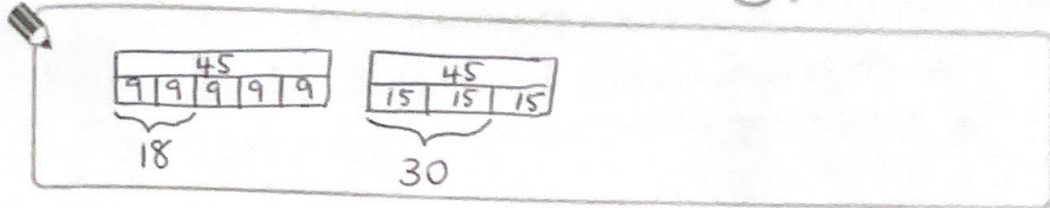
$$\text{Ebo sells } 60 \div 12 = 5 \times 7 = 35$$

Kate sells 5 more cookies.

6 Use $<$, $>$ or $=$ to complete the sentences. Use a diagram to help you.

a) $\frac{2}{3}$ of 70 $<$ $\frac{3}{4}$ of 70

b) $\frac{2}{3}$ of 45 $<$ $\frac{3}{4}$ of 45



7 Amelia bakes 36 biscuits. She keeps $\frac{1}{3}$ of the biscuits.

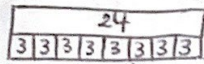
Amelia gives $\frac{5}{8}$ of the remaining biscuits to her dad and the rest to her mum.

How many biscuits does she give to her mum?



Amelia keeps $\frac{1}{3}$, so $36 \div 3 = 12$

She has 24 left.



15 to dad 9 to mum.

She gives 9 biscuits to her mum.

Reflect

Which question did you find the most challenging? How did you work it out?

• _____

• _____

• _____

• _____