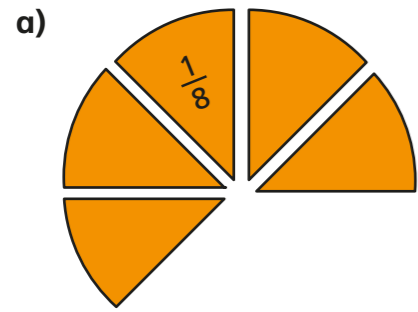


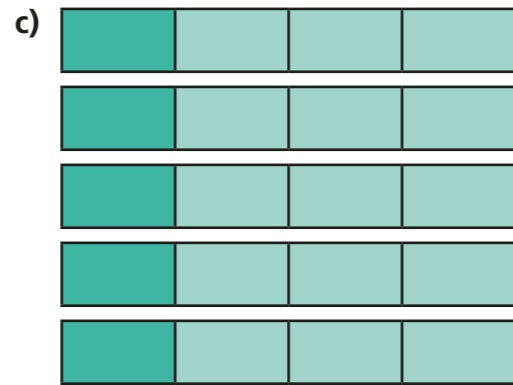
Represent multiplication of fractions



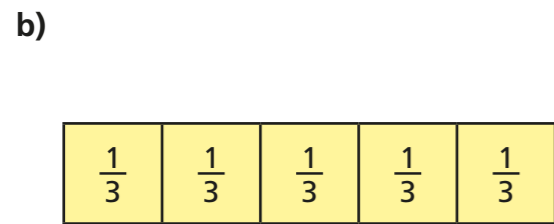
1 What multiplications are represented?



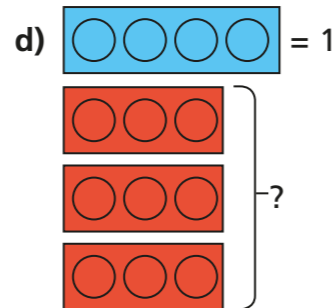
$$\square \times \square$$



$$\square \times \square$$



$$\square \times \square$$



$$\square \times \square$$

2 Match the multiplications to the corresponding additions.

$$5 \times \frac{1}{2}$$

$$\frac{2}{3} + \frac{2}{3}$$

$$4 \times \frac{1}{3}$$

$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$$

$$\frac{1}{4} \times 3$$

$$\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}$$

$$\frac{2}{3} \times 2$$

$$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2}$$

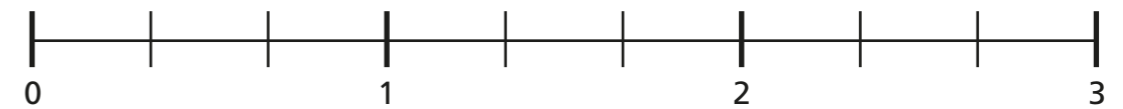
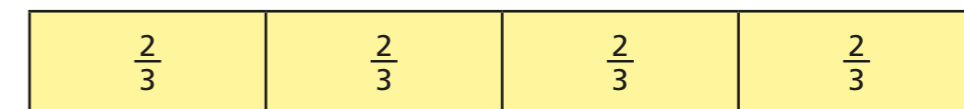
3 Draw a diagram to represent each calculation.

a) $3 \times \frac{1}{5}$

b) $3 \times \frac{2}{5}$

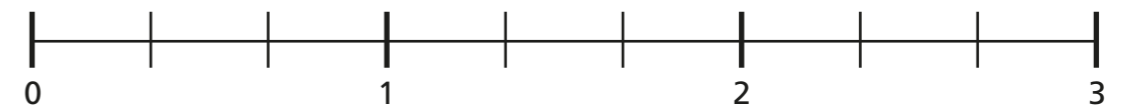
c) $\frac{2}{3} \times 4$

4 This number line represents the calculation $4 \times \frac{2}{3}$

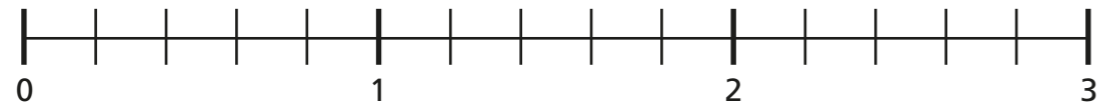


Draw on the number lines to represent the calculations.

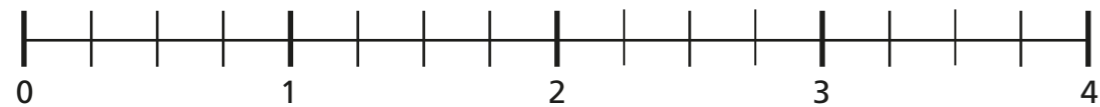
a) $7 \times \frac{1}{3}$



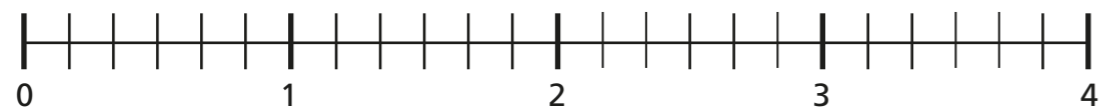
b) $3 \times \frac{3}{5}$



c) $5 \times \frac{3}{4}$



d) $\frac{5}{6} \times 4$

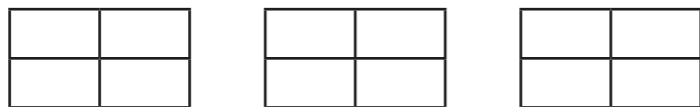


5 Shade the diagrams to represent the multiplications.

a) $5 \times \frac{1}{2}$



b) $4 \times \frac{3}{4}$



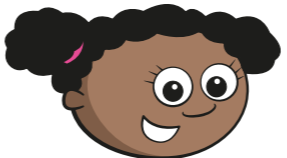
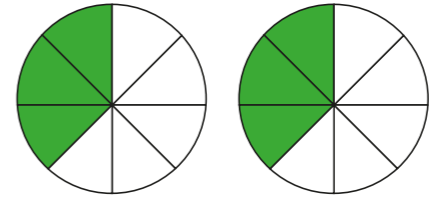
c) $3 \times \frac{4}{5}$



d) $\frac{2}{3} \times 5$

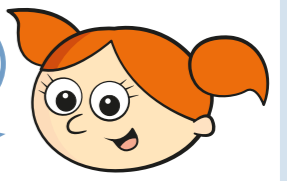


6



This diagram shows $2 \times \frac{3}{8}$

This diagram shows $\frac{5}{8} \times 2$

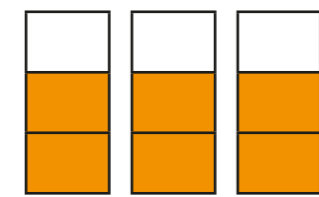


Explain why Whitney and Alex could both be right.

7

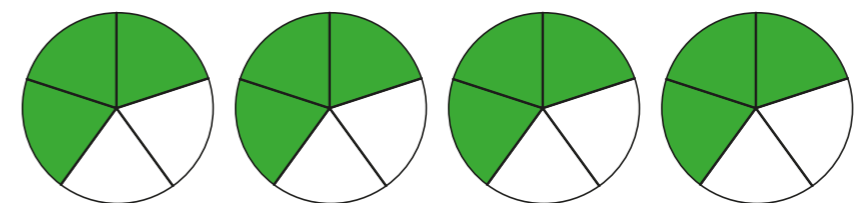
Tick all the calculations that the diagram could represent.

a)



- $3 \times \frac{2}{3}$
 $\frac{2}{3} + \frac{2}{3} + \frac{2}{3}$
 $\frac{1}{2} + \frac{1}{2} + \frac{1}{2}$
 $\frac{2}{3} \times 3$
 $\frac{1}{3} \times 6$
 $6 \times \frac{1}{3}$

b)



- $4 \times \frac{3}{5}$
 $\frac{2}{5} + \frac{2}{5} + \frac{2}{5} + \frac{2}{5}$
 $\frac{3}{5} + \frac{3}{5} + \frac{3}{5}$
 $\frac{3}{5} \times 4$
 $\frac{1}{5} \times 12$