

1 Complete the calculations.
Use bar models to help you.

a) $\frac{2}{7} + \frac{2}{7} + \frac{2}{7} = \square$ $3 \times \frac{2}{7} = \square$

b) $\frac{3}{10} + \frac{3}{10} + \frac{3}{10} = \square$ $3 \times \frac{3}{10} = \square$

c) $\frac{2}{9} + \frac{2}{9} + \frac{2}{9} + \frac{2}{9} = \square$ $4 \times \frac{2}{9} = \square$

d) $\frac{4}{9} + \frac{4}{9} = \square$ $2 \times \frac{4}{9} = \square$

What do you notice about parts c) and d)? Talk to a partner.

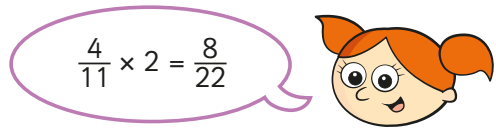
2 Complete the multiplications.

a) $2 \times \frac{3}{7} = \square$ d) $5 \times \frac{2}{11} = \square$

b) $3 \times \frac{3}{11} = \square$ e) $\frac{2}{15} \times 7 = \square$

c) $\frac{2}{11} \times 4 = \square$ f) $\frac{7}{15} \times 2 = \square$

3



Explain the mistake that Alex has made.



4 A cat eats $\frac{2}{15}$ of a bag of biscuits a day.

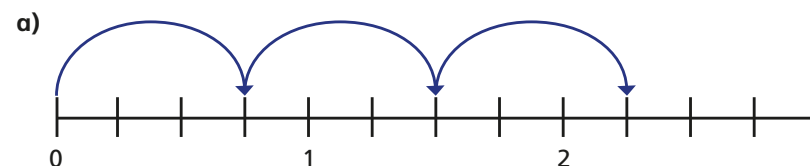
What fraction of the bag does the cat eat in 4 days?



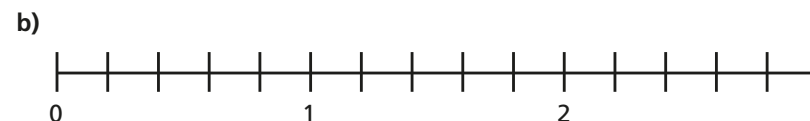
5 Complete the multiplications.

Use the number lines to help you.

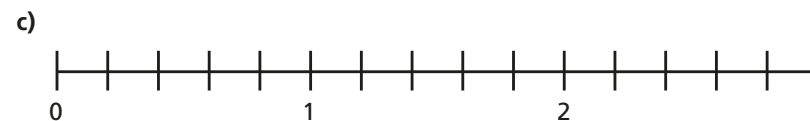
Give each answer as an improper fraction and as a mixed number.



$3 \times \frac{3}{4} = \square = \square$



$4 \times \frac{3}{5} = \square = \square$



$3 \times \frac{4}{5} = \square = \square$



- 4 A cat eats $\frac{2}{15}$ of a bag of biscuits a day.

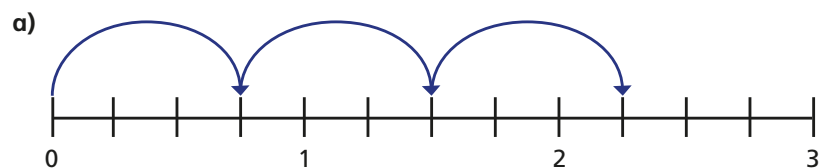
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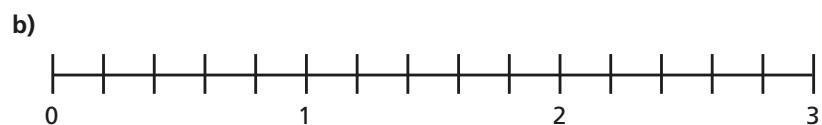
- 5 Complete the multiplications.

Use the number lines to help you.

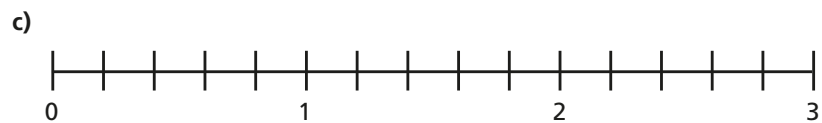
Give each answer as an improper fraction and as a mixed number.



$$3 \times \frac{3}{4} = \boxed{} = \boxed{}$$



$$4 \times \frac{3}{5} = \boxed{} = \boxed{}$$



$$3 \times \frac{4}{5} = \boxed{} = \boxed{}$$



- 6 Complete the multiplications.

a) $5 \times \frac{2}{3} = \boxed{} = \boxed{}$

b) $4 \times \frac{4}{5} = \boxed{} = \boxed{}$

c) $\frac{2}{7} \times 11 = \boxed{} = \boxed{}$

d) $4 \times \frac{7}{9} = \boxed{} = \boxed{}$

e) $17 \times \frac{2}{11} = \boxed{} = \boxed{}$

f) Describe the pattern you can see in the answers.

g) What could the next multiplication in the pattern be?

Write two possible options.

- 7 Here are some digit cards.



Use the digit cards to complete the multiplication.

$$\boxed{} \times \frac{\boxed{}}{8} = \frac{15}{8} = \boxed{} \frac{\boxed{}}{8}$$