1 Complete the calculations.

Use the bar models to help you.

a)

$\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = \boxed{}$

$3 \times \frac{1}{5} = \boxed{}$

b)

$\frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} = \boxed{}$

$4 \times \frac{1}{7} = \boxed{}$

1 **c)**

$$\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \boxed{}$$

$$5 \times \frac{1}{8} = \boxed{}$$
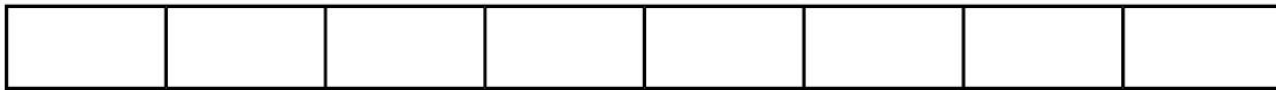
d)
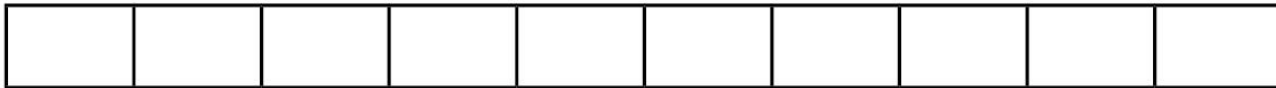
$$\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} = \boxed{}$$

$$7 \times \frac{1}{10} = \boxed{}$$

2 Complete the multiplications.

a) $3 \times \dfrac{1}{8} = \boxed{}$

b) $3 \times \dfrac{1}{10} = \boxed{}$

c) $\dfrac{1}{8} \times 5 = \boxed{}$

d) $9 \times \dfrac{1}{10} = \boxed{}$

e) $\dfrac{1}{5} \times 4 = \boxed{}$

f) $\dfrac{1}{9} \times 8 = \boxed{}$

g) $8 \times \dfrac{1}{11} = \boxed{}$

h) $\dfrac{1}{11} \times 10 = \boxed{}$

3 Match the addition to the equivalent multiplication.

| $\dfrac{1}{3} + \dfrac{1}{3}$ | $2 \times \dfrac{1}{5}$ |

| $\dfrac{1}{5} + \dfrac{1}{5} + \dfrac{1}{5}$ | $\dfrac{1}{4} \times 3$ |

| $\dfrac{1}{5} + \dfrac{1}{5}$ | $3 \times \dfrac{1}{5}$ |

| $\dfrac{1}{4} + \dfrac{1}{4} + \dfrac{1}{4}$ | $2 \times \dfrac{1}{3}$ |

4 A pizza is cut into sixths.
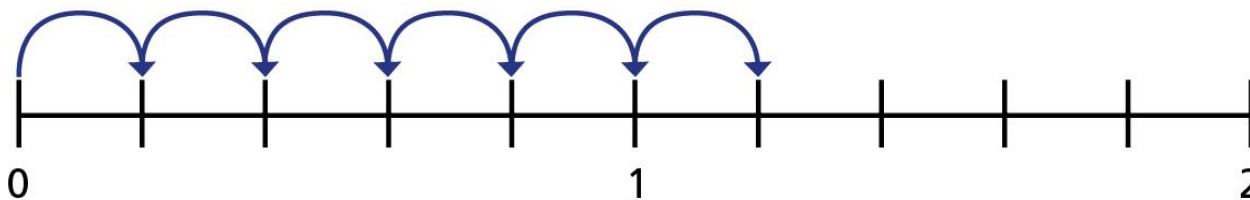
Jack eats five of the slices.

Write a multiplication to represent this.

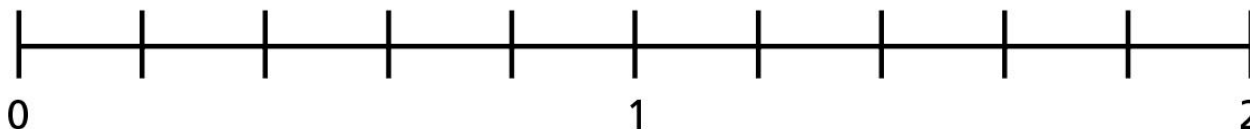$$\boxed{} \times \boxed{} = \boxed{}$$

5 Complete the multiplications. Use the number lines to help you.

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

a)

$$6 \times \frac{1}{5} = \boxed{} = \boxed{}$$

b)

$$9 \times \frac{1}{5} = \boxed{} = \boxed{}$$

6 Complete the multiplications.

a) $11 \times \dfrac{1}{10} = \boxed{} = \boxed{}$

b) $11 \times \dfrac{1}{9} = \boxed{} = \boxed{}$

c) $\dfrac{1}{8} \times 11 = \boxed{} = \boxed{}$

d) $11 \times \dfrac{1}{7} = \boxed{} = \boxed{}$

e) $11 \times \dfrac{1}{6} = \boxed{} = \boxed{}$

What do you notice?

Does this pattern continue?

7 Complete the calculations.

a) $\boxed{} \times \dfrac{1}{3} = \dfrac{2}{3}$

b) $\boxed{} \times \dfrac{1}{3} = 1$

c) $\boxed{} \times \dfrac{1}{7} = 1$

d) $\dfrac{1}{7} \times \boxed{} = 1\dfrac{3}{7}$

e) $\dfrac{1}{8} \times \boxed{} = 1\dfrac{3}{8}$

f) $\boxed{} \times \dfrac{1}{2} = 3\dfrac{1}{2}$

g) $\boxed{} \times \dfrac{1}{3} = 3\dfrac{1}{3}$

h) $\dfrac{1}{4} \times \boxed{} = 3\dfrac{1}{4}$