10.2.21

L.O. To multiply unit fractions

1. Complete the multiplications.

a) $3 \times \frac{1}{8} = \square$

b) $3 \times \frac{1}{10} = \square$

c) $\frac{1}{8} \times 5 = \square$

d) $9 \times \frac{1}{10} = \square$

e) $\frac{1}{5} \times 4 = \square$

f) $\frac{1}{9} \times 8 = \square$

g) $8 \times \frac{1}{11} = \square$

h) $\frac{1}{11} \times 10 = \square$

2. Complete the calculations.

a) $\square \times \frac{1}{3} = \frac{2}{3}$

b) $\square \times \frac{1}{3} = 1$

c) $\square \times \frac{1}{7} = 1$

d) $\frac{1}{7} \times \square = 1\frac{3}{7}$

e) $\frac{1}{8} \times \square = 1\frac{3}{8}$

f) $\square \times \frac{1}{2} = 3\frac{1}{2}$

g) $\square \times \frac{1}{3} = 3\frac{1}{3}$

h) $\frac{1}{4} \times \square = 3\frac{1}{4}$

3. Complete the multiplications.

a) $11 \times \frac{1}{10} = \square = \square$

b) $11 \times \frac{1}{9} = \square = \square$

c) $\frac{1}{8} \times 11 = \square = \square$

d) $11 \times \frac{1}{7} = \square = \square$

e) $11 \times \frac{1}{6} = \square = \square$

What do you notice?

Does this pattern continue?

4. A pizza is cut into sixths.

Jack eats five of the slices.

Write a multiplication to represent this.

$\square \times \square = \square$

5. Can you solve these problems? Work out what's in the brackets first.

a. $2 \times (^1/_5 + ^1/_{10}) = \square = \square$

b. $2 \times (^1/_3 + ^1/_4) = \square = \square = \square$

c. $2 \times (^1/_6 + ^1/_9) = \square = \square$

d. $2 \times (^1/_2 + ^1/_5 + ^1/_4) = \square = \square = \square$