Canonbury Home Learning

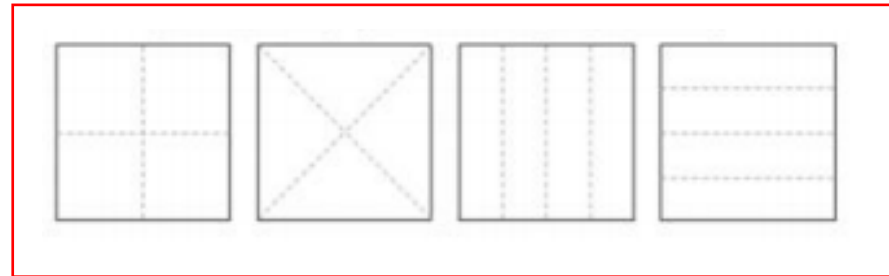**Year 3 Maths**

Steppingstone activity

Lesson 27

LO: To find a quarter ANSWERS

Model: Quarters must be equal (the same size).
Here are some paper shapes folded into four quarters:
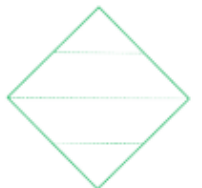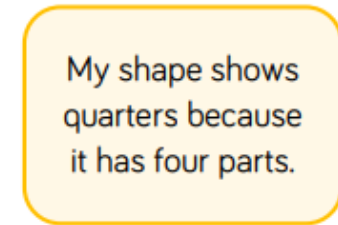
Task 1:

Task 2:

Alex is correct because quarters must be four equal parts. Jack has split his square into four unequal parts so they are not quarters.

Alex and Jack are talking about quarters.

My shape shows quarters because it has four equal parts.

Alex

My shape shows quarters because it has four parts.

Jack

Are they correct?
Explain your answer.

CANONBURY PRIMARY SCHOOL
Create, discover and succeed together

Making the whole

Rose Maths

1 Here are some counters.

🟡 🟡 🟡 🔴 🔴
1 2 3 4 5

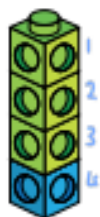a) What fraction of the counters are yellow? $\frac{3}{5}$

b) What fraction of the counters are red? $\frac{2}{5}$

c) Complete the number sentence. $\frac{3}{5} + \frac{2}{5} = \frac{5}{5}$

2 Here is a tower of cubes.

a) What fraction of the tower is green? $\frac{3}{4}$

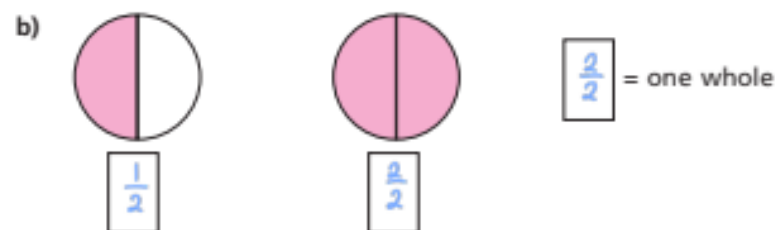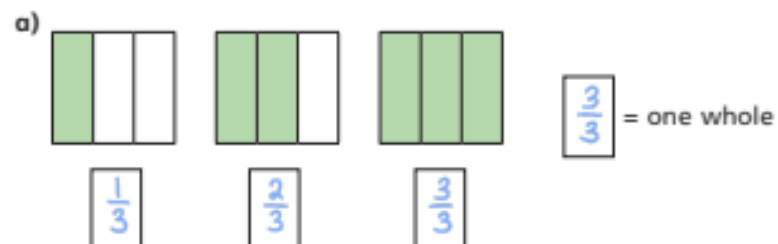b) What fraction of the tower is blue? $\frac{1}{4}$

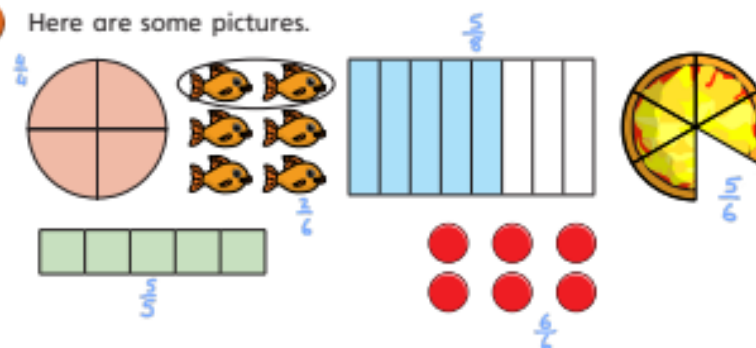c) Complete the number sentence. $\frac{3}{4} + \frac{1}{4} = \frac{4}{4}$

3 What fraction of each shape is shaded?

Which fraction represents a whole?

Fill in the missing fractions.

a)

$\frac{3}{3}$ = one whole

$\frac{1}{3}$ $\frac{2}{3}$ $\frac{3}{3}$

b)

$\frac{2}{2}$ = one whole

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

4 Here are some pictures.

Use the pictures to help you answer the questions.
a) Write three fractions that are less than one whole.

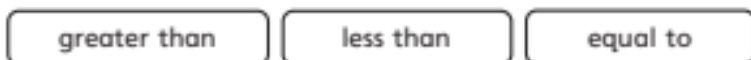$\frac{2}{6}$ $\frac{5}{8}$ $\frac{5}{6}$

b) Write three fractions that are equal to one whole.

$\frac{4}{4}$ $\frac{5}{5}$ $\frac{6}{6}$

What do you notice? Talk about it with a partner.

5 Choose a phrase to complete the sentences.

| greater than | less than | equal to |

When the numerator is _less than_ the denominator, the fraction is less than one whole.

When the numerator is _equal to_ the denominator, the fraction is equal to one whole.

6 Circle the fractions that are equivalent to one whole

$\frac{3}{5}$ $\frac{4}{4}$ $\frac{6}{10}$ $\frac{2}{2}$

$\frac{10}{10}$ $\frac{8}{9}$ $\frac{3}{3}$ $\frac{5}{5}$
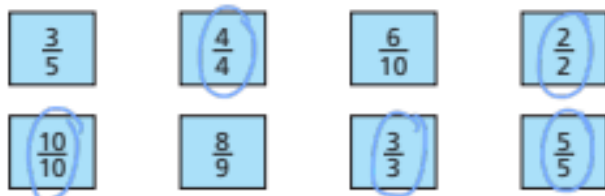
7 Here are $\frac{1}{3}$ of Jack's marbles.

Draw the rest of Jack's marbles in the bar model.
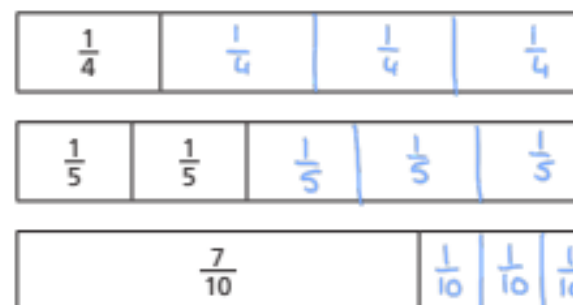
8 $\frac{2}{7}$ of a group of children are girls.

Girls   Boys

What fraction are boys?

$\frac{5}{7}$ are boys.

9 Each bar model is worth one whole.

Split the bar model and label the missing fractions.

| $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ |

| $\frac{1}{5}$ | $\frac{1}{5}$ | $\frac{1}{5}$ | $\frac{1}{5}$ | $\frac{1}{5}$ |

| $\frac{7}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ | $\frac{1}{10}$ |

10 Complete the number sentences.

This is the same as one whole.

a) $\frac{3}{5} + \boxed{\frac{2}{5}} = 1$

c) $\boxed{\frac{7}{7}} = \frac{2}{7} + \frac{5}{7}$

b) $\boxed{\frac{6}{10}} + \frac{4}{10} = 1$

d) $\frac{9}{9} = \boxed{\frac{4}{9}} + \frac{5}{9}$