

# 1&2LS20 Y2: Step 11

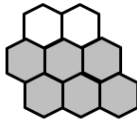
# Rehearse and Reason – answers

## Identifying $\frac{3}{4}$ of a shape and finding $\frac{3}{4}$ in the context of shapes

### REHEARSE

Show how you can use the number of equally sized pieces in the whole shape to calculate  $\frac{3}{4}$ .

The whole has 8 equally sized pieces.



$\frac{3}{4}$  of the shape is 6 equally sized pieces.

Colour  $\frac{3}{4}$  of the shape. Any 6 parts coloured - example as above.

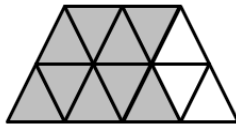
8			
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
2	2	2	2

$$\frac{1}{4} \text{ of } 8 = 2$$

$$\frac{3}{4} \text{ of } 8 = 6$$

### REHEARSE

The whole has 12 equally sized pieces.



$\frac{3}{4}$  of the shape is 9 equally sized pieces.

Colour  $\frac{3}{4}$  of the shape. Any 9 parts coloured - example as above.

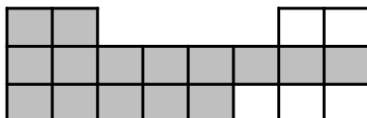
12			
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
3	3	3	3

$$\frac{1}{4} \text{ of } 12 = 3$$

$$\frac{3}{4} \text{ of } 12 = 9$$

### REHEARSE

Complete the model to show how you find  $\frac{3}{4}$  of the whole shape. Then colour  $\frac{3}{4}$  of the shape. (15 parts)



20			
5	5	5	

Any appropriate model showing 20 divided into 4 parts and then 3 of these added.

### RETRIEVE

Can I still tell the time? Circle the correct time on the clock.

quarter past 2



quarter to 8



### REHEARSE

Find and colour  $\frac{3}{4}$  on the shapes in 2LS30\_step3\_fractions\_of\_amounts\_in\_shapes. Show your working.

### APPLY AND EXPLORE

Devon says that  $\frac{3}{4}$  of his shape has 30 squares in it.

How many squares are there in the whole shape? 40

Prove it. 30 squares is  $\frac{3}{4}$  so each quarter is 10 and the whole is then 40.

40			
10	10	10	10

### APPLY AND EXPLORE

Princess says that you can calculate  $\frac{3}{4}$  of an amount by adding  $\frac{1}{2}$  and  $\frac{1}{4}$  of the amount. Does this strategy work?

Prove it. Yes  $\frac{1}{2} = \frac{2}{4}$  so  $\frac{1}{2}$  and  $\frac{1}{4}$  is the same as  $\frac{2}{4}$  and  $\frac{1}{4}$  which is  $\frac{3}{4}$ .

Can you think of another strategy to calculate  $\frac{3}{4}$  of an amount? You could subtract  $\frac{1}{4}$  from the whole to find  $\frac{3}{4}$ .