Name: .... Class: ....

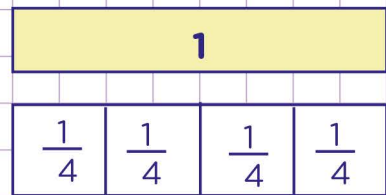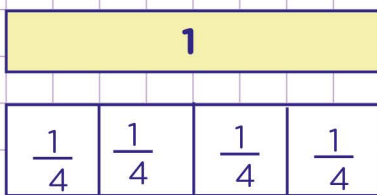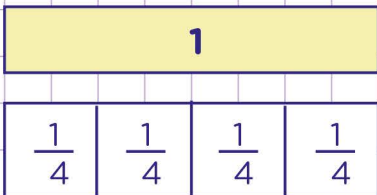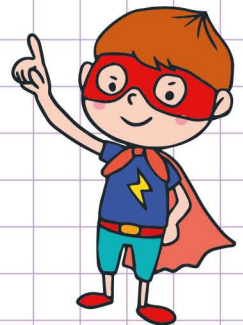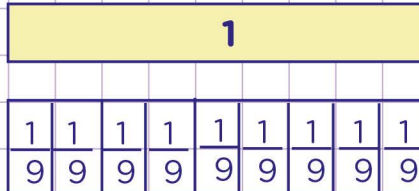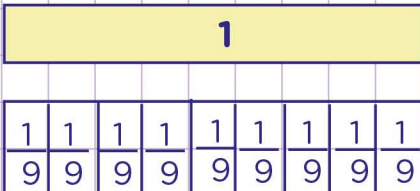## Divide whole numbers by unit fractions using models

1. Using the model below as an aid, divide $3 \div \dfrac{1}{4}$

model the nuber 3

1

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

1

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

1

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

how many $\dfrac{1}{4}$ portions

2. Using the model below as an aid, divide $2 \div \dfrac{1}{9}$
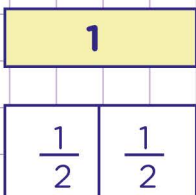
1

$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$

1

$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$

3. Using the model below as an aid, divide $5 \div \dfrac{1}{2}$

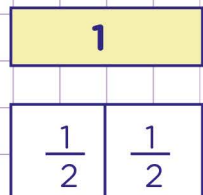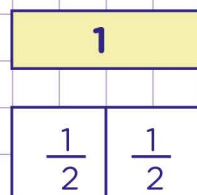| 1 |
|---|

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

1

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

1

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

1

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

1

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

mathskills4kids

Name: .... Class: ....

Divide whole numbers by unit fractions using models
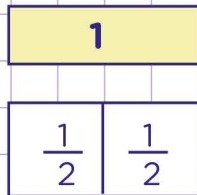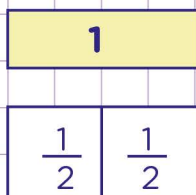
1. Using the model below as an aid, divide $3 \div \dfrac{1}{4}$

model the nuber 3

1

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

1

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

1

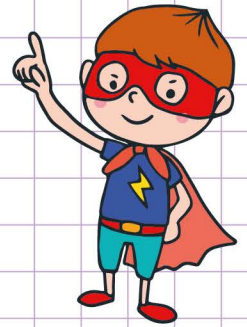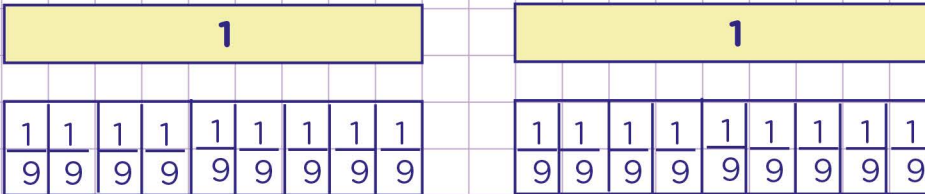| $\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
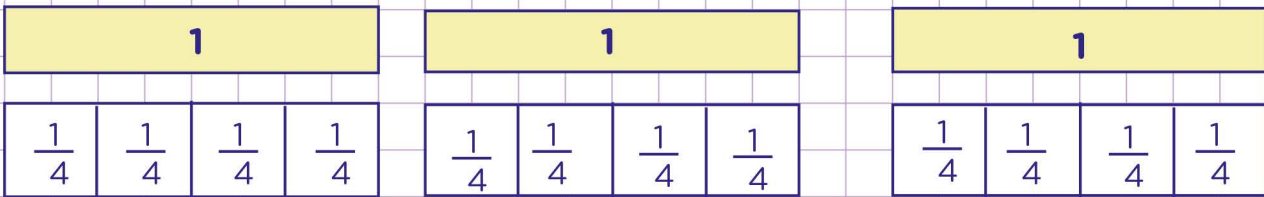
how many $\frac{1}{4}$ portions

model the number 3 as shown above
find how many $\dfrac{1}{4}$ fraction portions make up 3.
you will see it takes 12 of the $\dfrac{1}{4}$ fractions to make 3
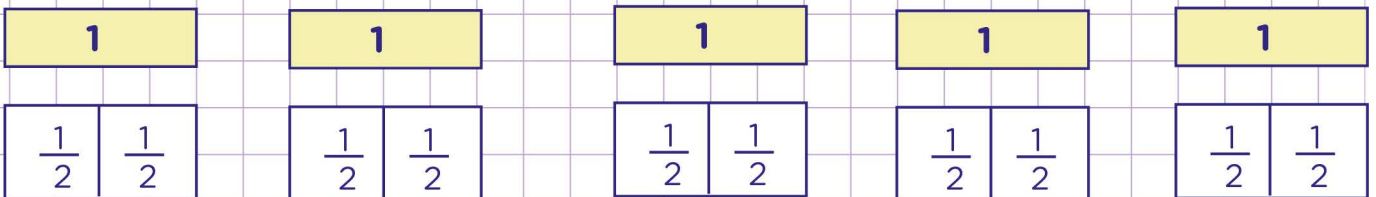
Therefore, $3 \div \dfrac{1}{4} = 12$

2. Using the model below as an aid, divide $2 \div \dfrac{1}{9}$

1

$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$

1

$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$

you see it takes 18 of the fraction portions to make up 2.
Therefore $2 \div \dfrac{1}{9} = 18$

3. Using the model below as an aid, divide $5 \div \dfrac{1}{2}$

1

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

1

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

1

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

1

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

1

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

you see it takes 10 of the $\dfrac{1}{2}$ fraction portions to make up 5

Therefore $5 \div \dfrac{1}{2} = 10$