## Colin and Coco's Daily Maths Workout

Workout 2.4
Answers
Fractions: Representing and Equivalence


## Fractions Workout

Represent each fraction in different ways using the diagrams


Fractions Workout Tick the shapes that represent $\frac{1}{3} \quad$ Circle the shapes that represent $\frac{3}{4}$


Represent each fraction in different ways using the diagrams

Shape divided into 3 equal parts, with one part shaded.

$\square$

parts shaded.
$\frac{3}{4}$


You need:
Fraction Baseboard (at the bottom of this page.)
A set of cards 1-9 (Use playing cards or print off the cards at the back of the pack.)

To play:
Shuffle the cards and put them in a deck face down.
Take it in turns to turn over a card.
If you get 1,2,3 or 4 you colour $\frac{3}{4}$ of one of your shapes. If you get 5,6 or 7 you colour $\frac{1}{4}$ of one of your shapes. If you get 8 or 9 you colour $\frac{1}{2}$ of one of your shapes.


Place the card back into the deck.
To win:
The winner is the first player to colour all of their shapes.


Put digits in the empty boxes to make the problems correct. Complete each one in several different ways.

Colin is shading a shape with 20 squares.
Possible He shades $\frac{3}{4}$ of the shape.
He shades 15 squares.

Coco is shading a shape with 18 squares.
She shades $\frac{1}{3}$ of the shape.
She shades 6 squares.

Coco is shading a shape with 14 squares.
He shades $\frac{2}{4}$ of the shape.
He shades 7 squares.

Now complete it using the digits $0,1,2,3,4,5,6,7$ and 8 once each.

COCO is designing a flag.
She has three colours: red, yellow and blue.


She colours $\frac{1}{3}$ of the flag red.
She colours $\frac{1}{3}$ of the flag yellow and $\frac{1}{3}$ of the flag blue.
Colour the flag in six different ways.

Now what if she has just red and blue? She could do all three of the thirds red, or two of the thirds blue and one third red...and so on.

Investigate the different ways she could colour the flag now.

## RRR

RRB
RBR
BRR
BBR
BRB
RBB
BBB

Coco climbs $\frac{1}{4}$ of the way up the mountain.
Colin climbs $\frac{1}{3}$ of the way up the mountain.
Who has gone further up the mountain?

Colin eats $\frac{1}{2}$ of the cake. Coco eats $\frac{2}{4}$ of the cake. Who has eaten more of the cake?

## Equal

Colin thinks $\frac{3}{4}$ of the patio has grey slabs.
Do you agree?
Yes, because 3 out of every 4 are shaded.


Coco thinks she has shaded $\frac{1}{3}$ of this shape because one part is grey and three parts are white. Convince Coco she is not right.

For thirds you need three equal parts


Divide this shape so you can show $\frac{3}{4}$
e.g.


Create your own shapes to show $\frac{3}{4}$ or $\frac{1}{3}$

Today's number is

## Cards for the Games



