



Colin and Coco's Daily Maths Workout

Workout 2.4

Answers

Fractions: Representing and Equivalence

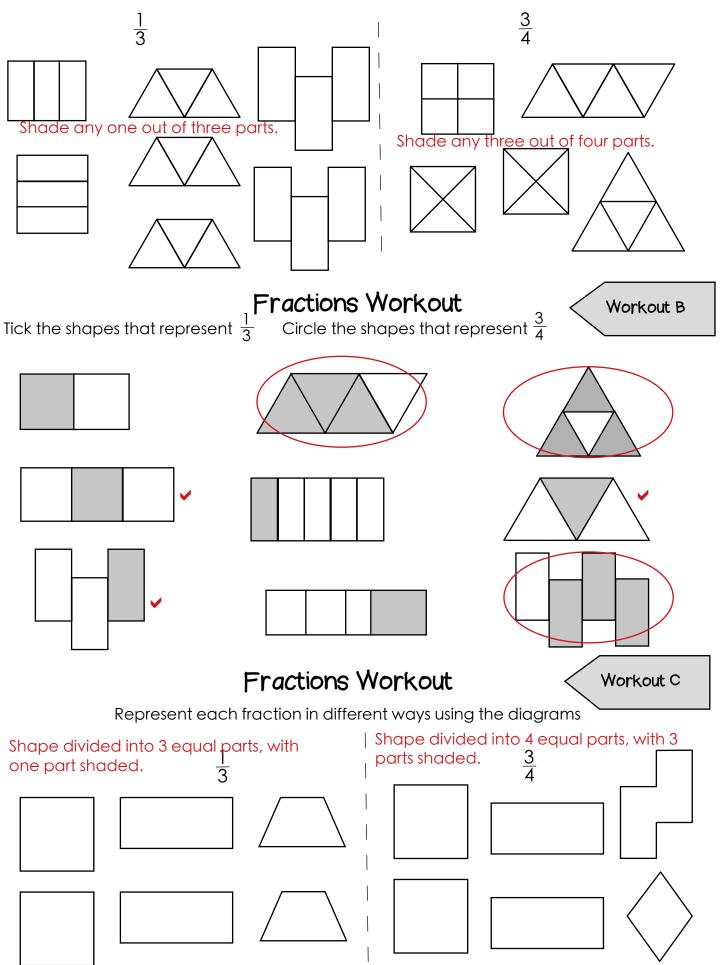




Fractions Workout

Workout A

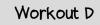
Represent each fraction in different ways using the diagrams



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You need:

Fraction Baseboard (at the bottom of this page.)

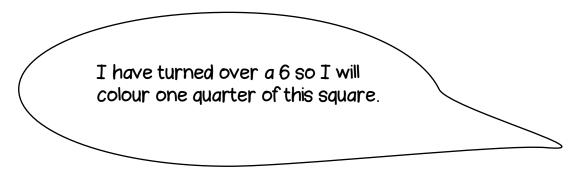
A set of cards 1 - 9 (Use playing cards or print off the cards at the back of the pack.)

To play:

Shuffle the cards and put them in a deck face down.

Take it in turns to turn over a card.

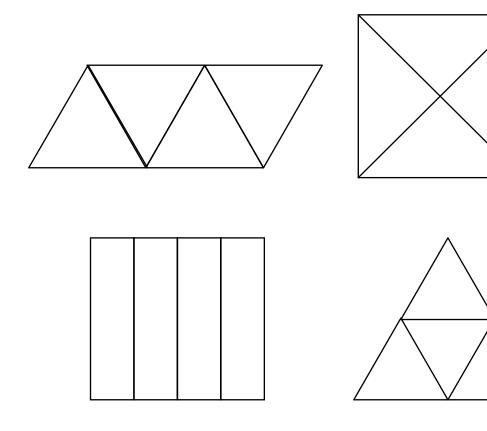
If you get 1, 2, 3 or 4 you colour $\frac{3}{4}$ of one of your shapes. If you get 5, 6 or 7 you colour $\frac{1}{4}$ of one of your shapes. If you get 8 or 9 you colour $\frac{1}{2}$ of one of your shapes.



Place the card back into the deck.

To win:

The winner is the first player to colour all of their shapes.





Missing Number Workout



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 Solution 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.

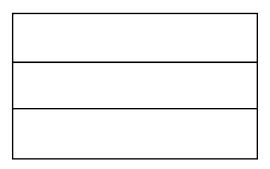
Now complete it using the digits 0, 1, 2, 3, 4, 5, 6, 7 and 8 once each.



Flag Challenge



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



	RYB
She colours $\frac{1}{3}$ of the flag red.	RBY
0	BRY
She colours $\frac{1}{3}$ of the flag yellow and $\frac{1}{3}$ of the flag blue.	YRB
	BYR
Colour the flag in six different ways.	YBR

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.

IXIXIX
RRB
RBR
BRR
BBR
BRB
RBB
BBB

Word Problem Workout

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

Colin thinks $\frac{3}{4}$ of the patio has grey slabs. Do you agree?

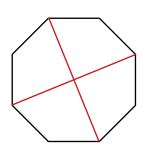
Yes, because 3 out of every 4 are shaded.

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.

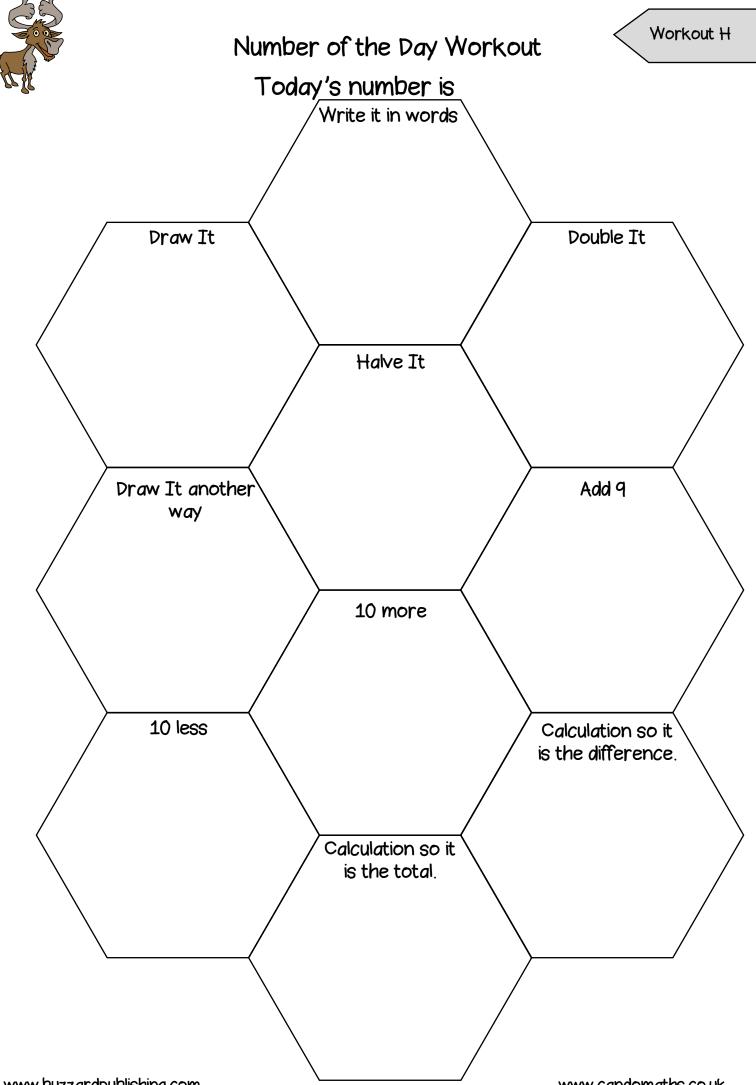
For thirds you need three equal parts

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

e.g.



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



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