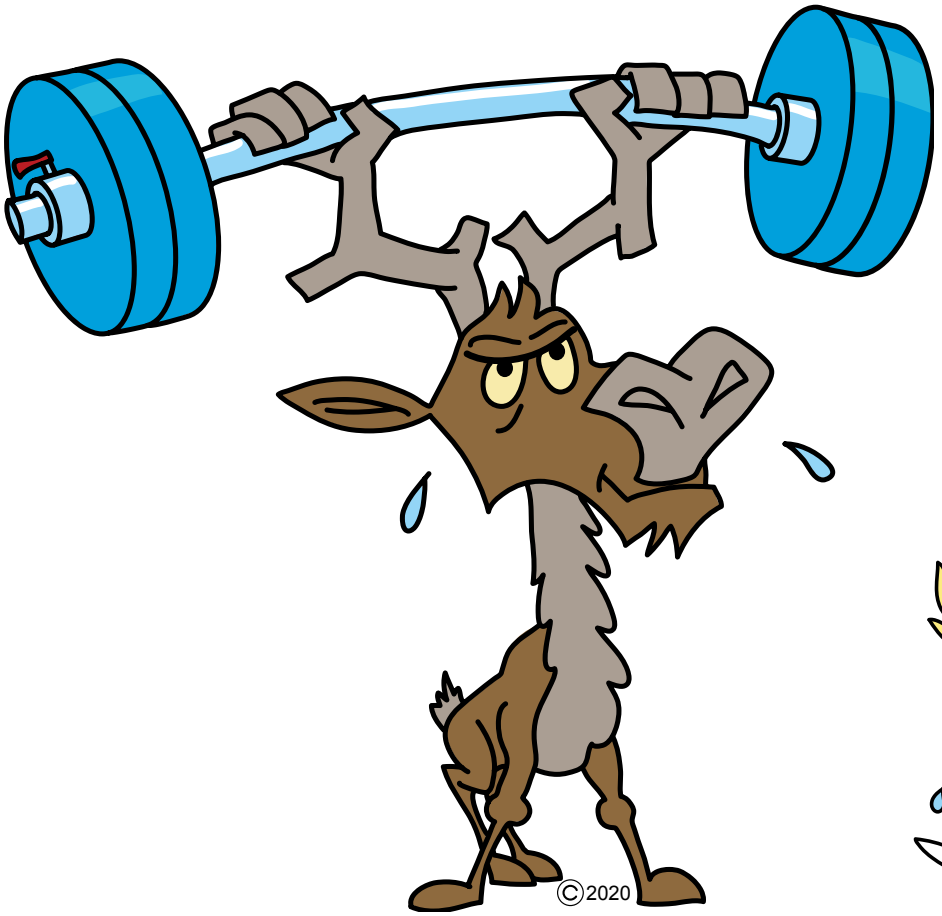
Colin and Coco's Daily Maths Workout

Workout 2.5

Fractions: Calculating





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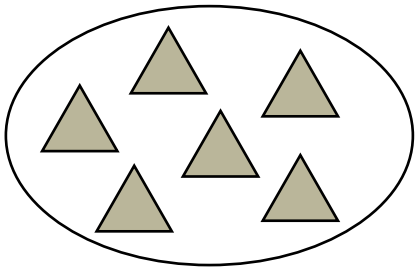
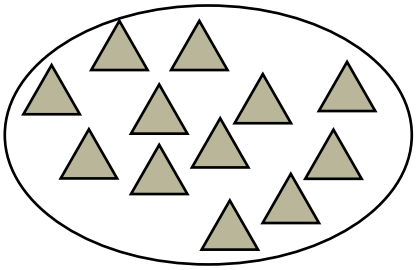
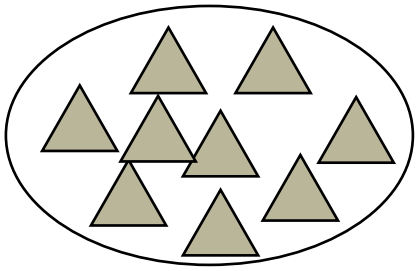
Fractions: Calculating Workout

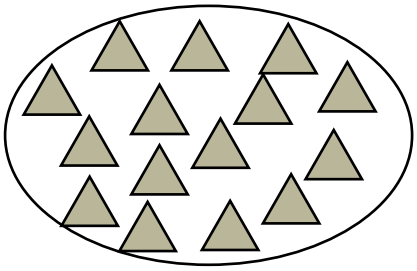
Workout A

Find one third of each set of triangles.









If $\frac{1}{3}$ is 6, the whole is ☐



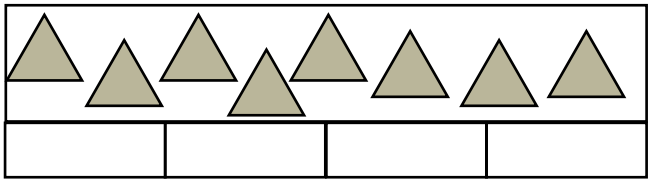
If $\frac{1}{3}$ is 10, the whole is ☐



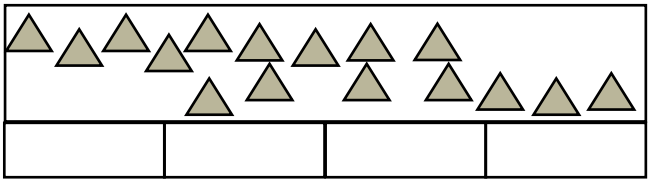
Fractions: Calculating Workout

Workout B

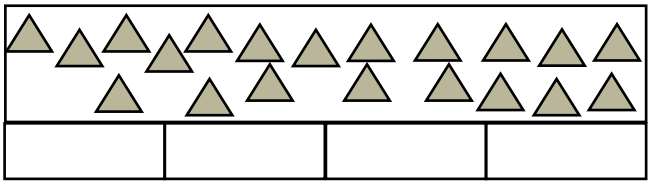
Find three quarters of each set of triangles.



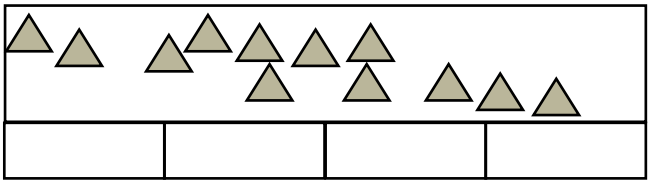
Three quarter is ☐ triangles.



Three quarter is ☐ triangles.



Three quarter is ☐ triangles.



Three quarter is ☐ triangles.

Fractions: Calculating Workout

Workout C

$\frac{1}{3}$ of 9 = ☐ $\frac{1}{3}$ of 15 = ☐ $\frac{1}{3}$ of 6 = ☐

$\frac{1}{3}$ of 12 = ☐ $\frac{3}{4}$ of 16 = ☐ $\frac{3}{4}$ of 4 = ☐

$\frac{1}{3}$ of 21 = ☐ $\frac{3}{4}$ of 20 = ☐ $\frac{3}{4}$ of 8 = ☐

$\frac{1}{3}$ of 18 = ☐ $\frac{3}{4}$ of 12 = ☐ $\frac{3}{4}$ of 40 = ☐

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Fractions of Amounts (2) Game

Workout D

You need:
Buttons / pasta / items to count
1 - 6 dice
Counter or item each
Fractions of Amounts board (next page.)

To play:
Have the buttons available to calculate the fractions of amounts.
Take it in turns to throw the dice and move along the board.

Calculate the amount that you land on and score that amount.

I have landed on $\frac{3}{4}$ of 12 so I
divide 12 into four equal groups of 3.
I score 3 lots of 3, so I score 9.

If you land on Colin the CanDo Caribou you do nothing.
The game ends when the first player passes the Finish.

To win:
The winner is the player with the highest score.

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Fractions of Amounts Board

Finish

$\frac{3}{4}$ of 8



$\frac{1}{2}$ of 18

$\frac{1}{3}$ of 15

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

$\frac{1}{2}$ of 20

$\frac{3}{4}$ of 20



$\frac{1}{3}$ of 6

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

$\frac{1}{3}$ of 9

$\frac{3}{4}$ of 8

$\frac{1}{3}$ of 18



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

$\frac{1}{3}$ of 15

$\frac{3}{4}$ of 16



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

$\frac{1}{3}$ of 3

$\frac{3}{4}$ of 20

$\frac{1}{2}$ of 16



$\frac{3}{4}$ of 8

$\frac{1}{3}$ of 18

$\frac{1}{3}$ of 9

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

$\frac{1}{4}$ of 16



$\frac{3}{4}$ of 16

Start

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Missing Number Workout

Workout E

Put digits in the empty boxes to complete the statements.
Complete each one in several different ways.

$\frac{1}{\square}$ of $\square\square = \square$

$1\square = \frac{3}{\square}$ of $2\square$

$\frac{\square}{4}$ of $\square\square = \square$

Now complete all the statements together using the digits
0, 1, 2, 3, 4, 5, 6 and 7
at least once each.

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Picnic Challenge

Workout F

Colin, Coco and Steve are going for a picnic.
They share everything fairly.

6 mini chocolate rolls

12 cheesey crackers

1 pizza

9 sausages on sticks

How much of each thing do they have each?

How would they share the following equally between the three of them?

2 Swiss rolls

7 cheese straws

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Word Problem Workout

Workout G

Coco has 24 Seed Sticks.
She eats $\frac{3}{4}$ of her Seed Sticks for lunch.
How many Seed Sticks does she eat for lunch?
How many does she have left?

Colin goes on a 90 minute car trip.
He sleeps for one third of the trip.
How long does he sleep for?

Coco bakes 20 cup cakes.
Colin eats $\frac{3}{4}$ of them.
How many cup cakes does Coco have left?

Coco has 24 fence panels around her garden.
After painting one third of them she has a rest.
How many panels does she have left to paint?

Colin has some chocolates. He gives one third of them to Coco. He gives one third of them to Steve.
He has 6 chocolates left.
How many chocolates did he start with?

Create your own problems finding $\frac{1}{3}$ or $\frac{3}{4}$ of amounts.

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Workout H

Who am I?
Workout

Use the clues to work out Colin's mystery number.

You may want to cross numbers off on the 100 grid as you consider each clue.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

1) I am an odd number
2) I am less than 50
3) I have two digits
4) I am not in the 5 times table
5) My digits are not equal
6) Both my digits are odd
7) If I count in 3s from zero, I will not say my number
8) The sum of my digits is less than 10
9) One of my digits does not have straight lines
10) If I write my number using words, I use an odd number of letters

Colin's mystery number is ☐

Create your own 'Who am I?' puzzle

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Please share your puzzle with Colin @MathsCanDo

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