Colin and Coco's Daily Maths Workout

Workout 1.11

KeeP-uppI (Term 4)

KPIs for Term 4
   Represent and use number bonds within 20 (addition facts)
   Represent and use number bonds within 20 (subtraction facts)
   Recognise and find one half
   Recognise and find one quarter
   Use the language position, direction and movement
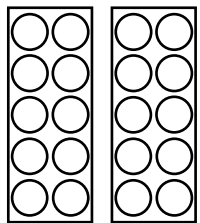
Addition Workout

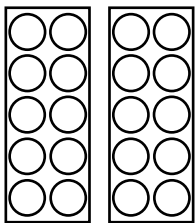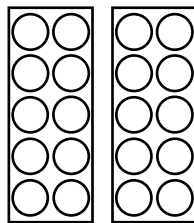Represent and calculate.

16 + 4 =

13 + 6 =

14 + 4 =

11 + 7 =
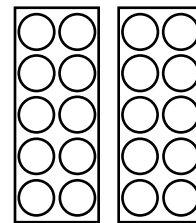
8 + 12 =
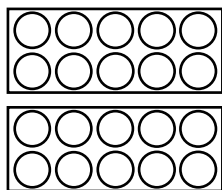
9 + 11 =
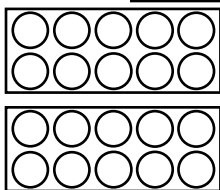
8 + 9 =
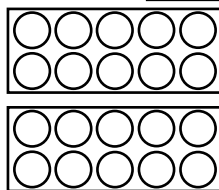
9 + 9 =
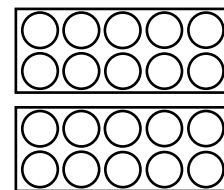
Subtraction Workout

Represent and calculate.

17 − 8 =
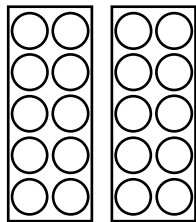
18 − 7 =
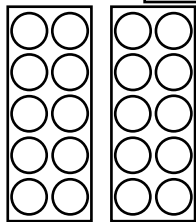
20 − 7 =
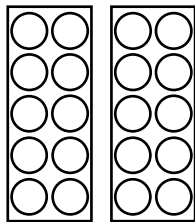
19 − 9 =
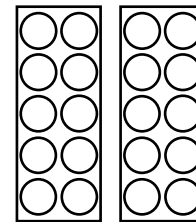
20 − 8 =
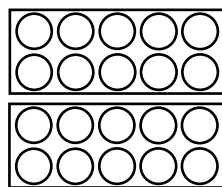
17 − 7 =
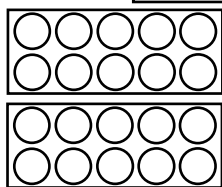
19 − 6 =
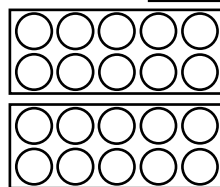
20 − 9 =
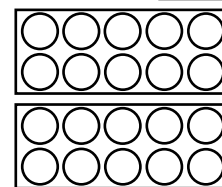
Fraction Workout

Show $\frac{1}{2}$ of each shape.
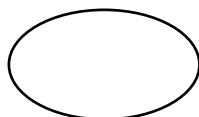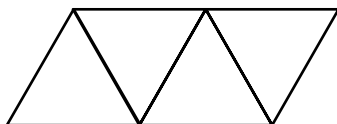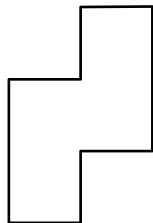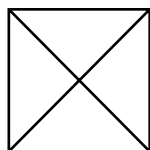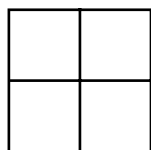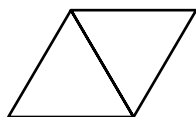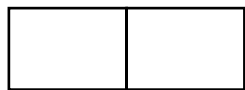
Show $\frac{1}{4}$ of each shape.
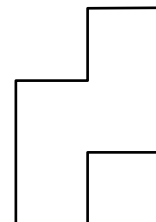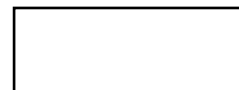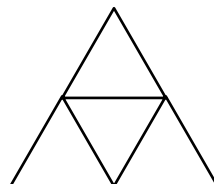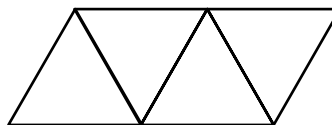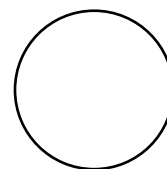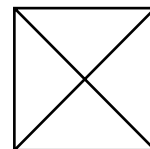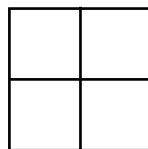
Direction Game

You need:
Arrow counter for each player (at the bottom of this page)
Direction Board (on the next page)
Direction Cards (at the bottom of this page)

To play:
Shuffle the cards and have them face down in a deck.
Start with your arrow counter on one of the shaded arrow squares.
Take turns to pick a card and move your arrow counter as instructed.
Score the number you land on.
If your arrow falls off the board you score nothing and start again, next turn, from any shaded arrow square.
Replace the card at the bottom of the deck.

> I move my arrow by turning a quarter turn right, then going forward 1 square.
> I have landed on 3 so score 3 points.

To win:
The winner is the first player to score more than 15 points.
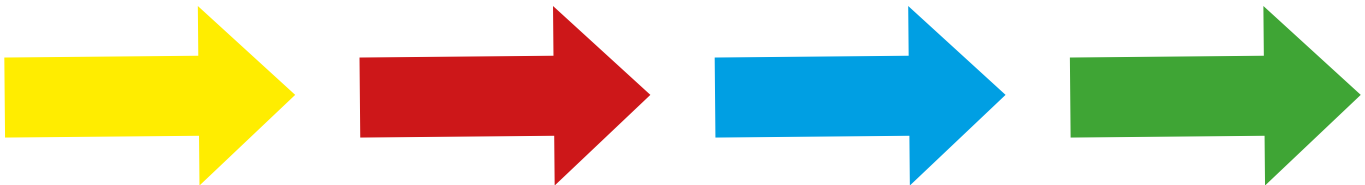
1 half turn right	1 half turn left	1 half turn right	1 half turn left	1 quarter turn left
Forward 1 square	Forward 1 square	Backward 1 square	Backward 1 square	Forward square 1

1 quarter turn right	1 quarter turn left	1 quarter turn right	1 quarter turn left	1 quarter turn right
Forward 2 squares	Forward 2 squares	Backward 1 square	Backward 1 square	Forward 1 square

Direction Game Board

2	1	3	2
1	2	←	1
3	→	2	3
2	3	←	2
1	→	1	3
2	3	2	1

Missing Number Workout

Put digits in the empty boxes so that the calculations are correct.

Complete them in several different ways.

$$1\square - 1\square = 7$$

$$12 + \square = 1\square$$

$$1\square - \square = \square\square$$

$$\square 0 - 1\square = 7$$

Are there any boxes that it is impossible to put a 0 in? Why? What about other impossible digits?

Are there any boxes that could have any of the digits in them?

Now complete it using the digits 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9 once each.

A-Maze-ing Challenge

Colin is trying to go from one square to another, through the grid, to get to KeePuppI. He cannot go through the shaded squares.

Find different routes for him.
Describe the routes using the language of direction.

Directions could include such instructions as:
Go forward ___ squares.
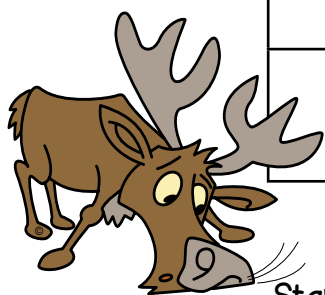Make a quarter turn right or left.

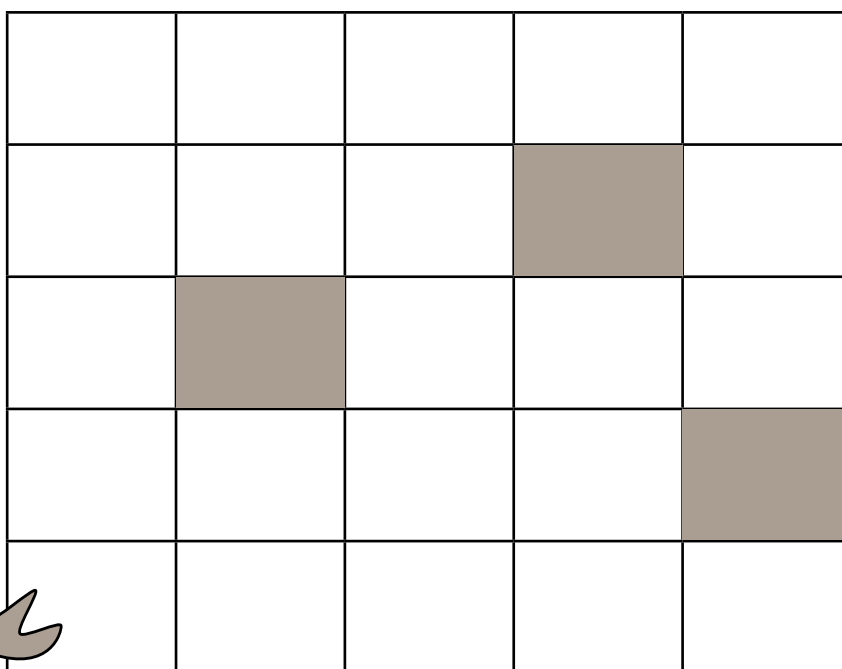Find a route with only 3 instructions:
Go forward ___ squares
Make a ____ turn ___
Go forward ___ squares.

Start here

Find a route with 7 instructions.

What other numbers of instructions can you give?.

Now give KeePuppI directions to get to Colin.

Word Problem Workout

1. Colin has a pack of twelve crayons.
   Colin takes half of them out of the pack.
   How many are left in the pack?

2. Coco has 16 crackers.
   She eats half of the crackers then eats 3 more.
   How many crackers does she have left?

3. Some children go out to play.
   Half of them are girls. There are 10 girls.
   How many children are there altogether?

4. Coco plants 12 plants in a pot.
   One quarter of the plants have flowers.
   How many plants have flowers?

5. In a choir one quarter of the singers are men.
   There are 20 singers in the choir altogether.
   How many men are there?

Create your own problems using fractions of amounts.

Matching Workout

Match questions to correct answers or to other questions with the same answer.
Fill in the missing buddies.

9 + 11
17 – 8
19 – 9
8 + 9
6 + 13
7
20 – 12
18 – 12

10 + 9
18 – 13
17
10 + 10
9
8
6
18 – 11

Match fractions of amounts to their answers.
Fill in the missing buddies.

$\frac{1}{2}$ of 8
$\frac{1}{2}$ of 10
$\frac{1}{4}$ of 12
$\frac{1}{2}$ of 8
$\frac{1}{4}$ of 4
$\frac{1}{2}$ of 20
$\frac{1}{4}$ of 16

4
4
3
4
5
1
10

Create your own Matching Workout.