



Colin and Coco's Deliberate Practice

Year 3 Unit 15

Statistics





Contents

This pack of deliberate practice is designed to be used flexibly to secure the manageable steps of this unit.

The table below indicates which activities are linked to which manageable steps.

	Do It	Challenge It	Play It
Interpret a pictogram where the symbol represents multiple items	1		1
Construct a pictogram where the symbol represents multiple items		1	
Interpret a bar chart			1
Construct a bar chart		2	
Interpret data in a table	2		2
Create a table to show data			2



Do It 1

The pictogram shows favourite food.

 = 3 people

ham	    
beef	 
salad	   
jam	  

How many people like salad?

How many more people like ham than jam?

How many people were asked?

The pictogram shows pets owned.

 = 4 people

dog	  
cat	   
rabbit	 
bird	 

How many people own a cat?

How many more people own a dog than a bird?

How many people were asked?

Construct pictograms that match the information.

Challenge It 1

22 children are asked to choose between scooter, bike, roller skates or skateboard.

6 children choose bike.

More children choose roller skates than skateboard.

Fewer children choose scooter than skateboard.

Construct several possible pictograms to represent this information using

 = 4 child.

How many children chose scooter each time?



Pictogram/Bar Chart Game

Play It 1

You need:

2 sets of Cards: Set A Bar Charts and Set B Pictograms

To play:

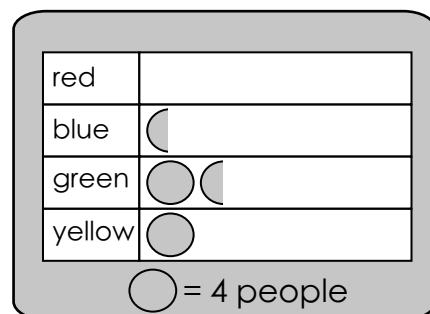
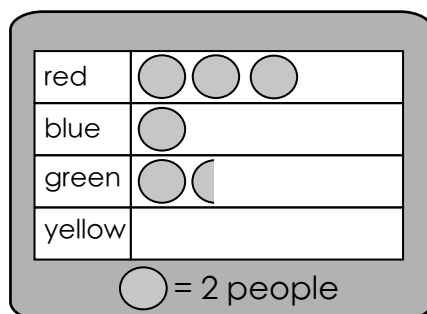
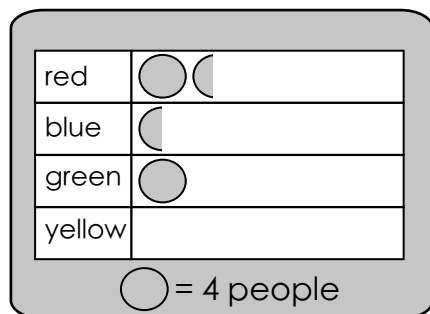
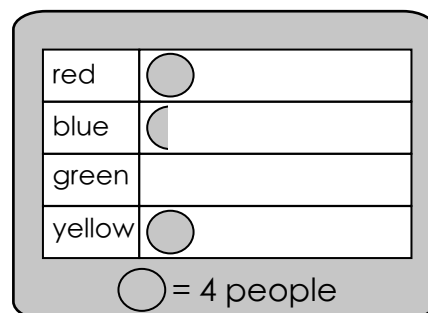
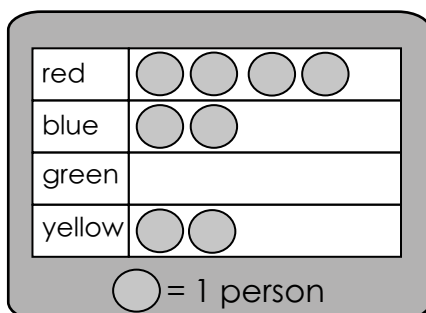
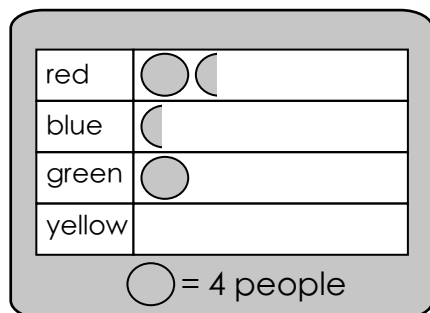
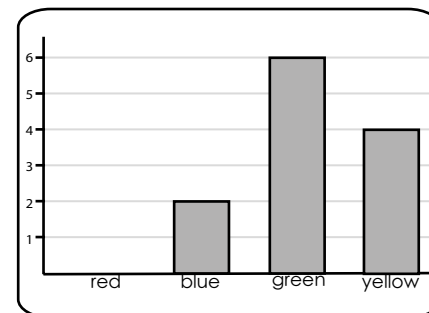
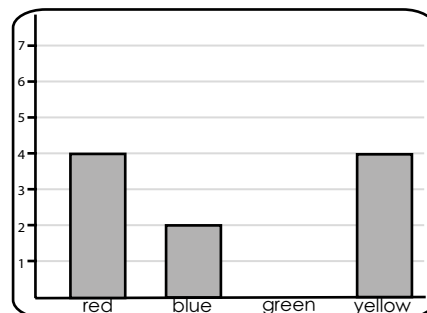
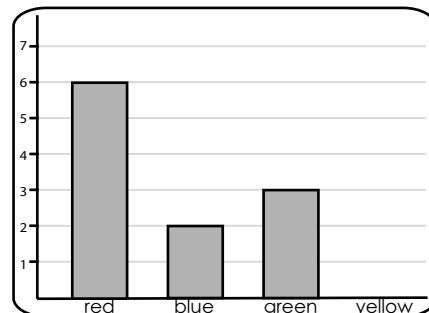
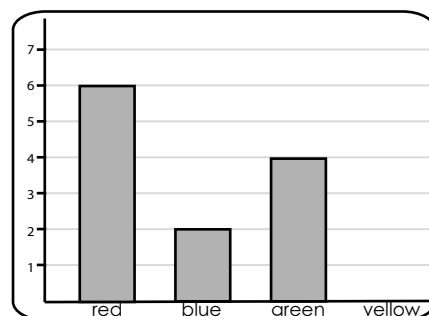
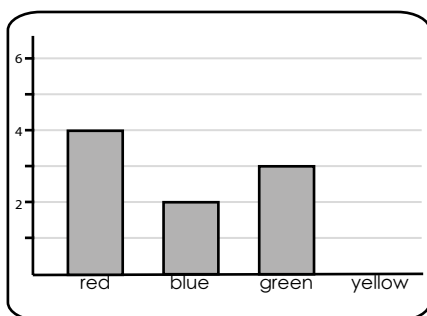
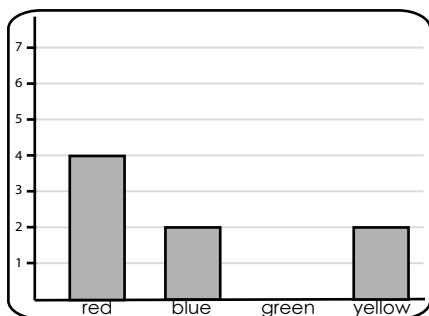
Shuffle the cards and place them face down.

Players take turns to turn over a card from each set.

If the pictogram and the bar chart show the same information, the player keeps the pair of cards.

To win:

The winner is the player with the most pairs of cards.





Do It 2

The table shows children's favourite colours.

Colour	Number of boys	Number of girls
Red	4	2
Blue	5	3
Yellow	1	2
Purple	3	5

How many boys like blue?
How many girls like red?
How many more girls than boys like purple?
How many children were asked in total?

The table shows children's favourite food

	Pizza	Pasta
Boys	6	4
Girls	5	7

How many boys like pasta?
How many girls like pizza?
How many children like pizza?
How many children were asked in total?

Construct bar charts that match the information.

Challenge It 2

15 children are asked to choose between football, rugby, netball or tennis.

The same amount of children choose football and rugby.

3 children choose tennis.

Most children choose netball.

Construct several possible bar charts to represent this information.





Table Game

Play It 2

You need:

1 - 6 dice

Game Template one each

To play:

Players take turns to roll the dice.

They place the number in one of the cells in their table.

They repeat until all their cells are filled in.

Player 1 picks one column category (say 'Boys') and Player 2 picks one row category (say 'Cats').

The player with the highest number in the selected cell scores one point.

Winner: The winner is the first player to score 10 points.

Game Template

	Boys	Girls
Dogs		
Cats		
Rabbits		