Colin and Coco's Deliberate Practice

Year 2 Unit 13

Statistics

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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.

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Do It 1

The table shows children's favourite colours.

Colour	Number of Children
Red	4
Blue	8
Yellow	1
Purple	7

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

The table shows the make of cars in a car park.

Make of Car	Number of cars
Ford	5
Renault	3
Mini	8
BMW	4

How many cars are Minis?
How many cars are there in total?
How many more Ford cars are there than Renault cars?

Challenge It 1

Construct tally charts that match the information.

18 children are asked to choose between apple, banana, peach and orange.
6 children choose apple.
The same number choose banana and peach.
Fewer choose orange than apple.
Construct several possible tally charts.

How many chose orange each time?

Fruit	Tally
apple	
banana	
peach	
orange	

Fruit	Tally
apple	
banana	
peach	
orange	

Fruit	Tally
apple	
banana	
peach	
orange	

Tally Chart Game

Play It 1

You need:
1 - 6 dice

To play:
Players take turns to throw the dice and tally the number they throw in their tally chart.

To win:
The winner is the first player to tally ten of the same number.

Number thrown	tally	total
1		
2		
3		
4		
5		
6		

Number thrown	tally	total
1		
2		
3		
4		
5		
6		

Do It 2

Colin asks his friends about their favourite food.

= 1 person

ham	
beef	
salad	
jam	

How many people like salad?
How many more like ham than jam?
How many people were asked in total?

Coco asks her friends what pets they own.

dog	
cat	
rabbit	
bird	

= 1 person

How many people were asked?
How many people own a dog?
How many more own a cat than a rabbit?

Challenge It 2

Construct pictograms that match the information.

15 children are asked to choose between scooter, bike, roller skates or skateboard.
4 children choose bike.
More choose roller skates than skateboard.
Fewer choose scooter than skateboard.
Construct several possible pictograms using = 1 child.

How many chose scooter each time?

scooter	
bike	
roller skates	
skateboard	

scooter	
bike	
roller skates	
skateboard	

Pictogram Game

Play It 2

You need:
A pack of playing cards

To play:
Shuffle the cards and place them in a deck, face down.
Players take turns to turn over a card and represent the suit of the card in their pictogram.

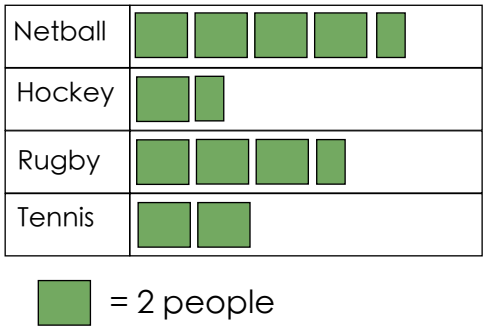
To win:
The winner is the first player to tally ten of the same suit.

Suit of card	▭ = 1 card	Total
heart		
club		
diamond		
spade		

Suit of card	▭ = 1 card	Total
heart		
club		
diamond		
spade		

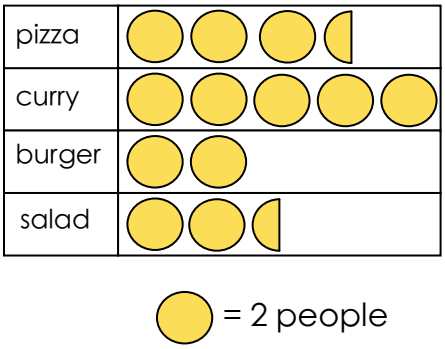
Do It 3

The pictogram shows the favourite sports of children in a class.



How many people like rugby?
How many more like netball than tennis?
How many children were asked in total?

The pictogram shows the favourite food of children in a class.



How many children were asked in total?
How many children chose salad?
How many more children chose curry than pizza?

Challenge It 3

Construct pictograms that match the information.

16 children are asked to choose between red, blue, green and yellow.
7 children choose blue.
More choose red than yellow.
An odd number choose green.
Construct several possible pictograms where ▭ = 2 children.

How many chose green each time?

red	
blue	
green	
yellow	

red	
blue	
green	
yellow	

Pictogram Category Game

You need:
2 sets of Pictogram Cards: Set A and Set B (on this and the next page)

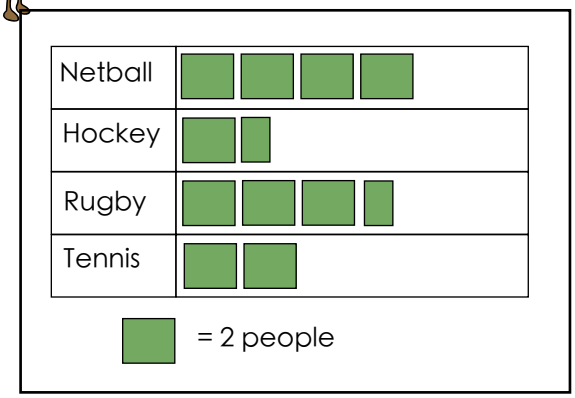
To play:
Shuffle the cards and place them in two decks, face down.
Players take turns to turn over a card from each deck.
Using the pictogram on their card, they work out the number of people for the category on their other card.
The number of people is their score.

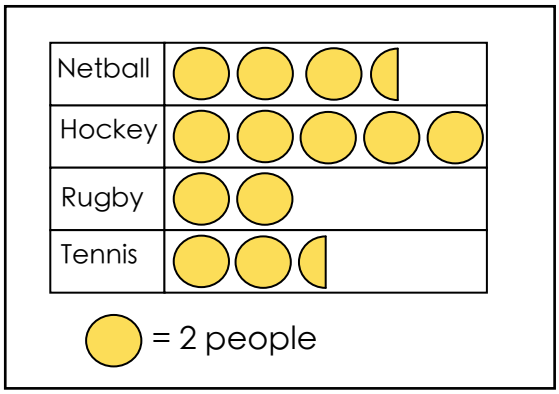
To win:
The winner is the first player to score over 100 or the player with the highest score after five goes each.

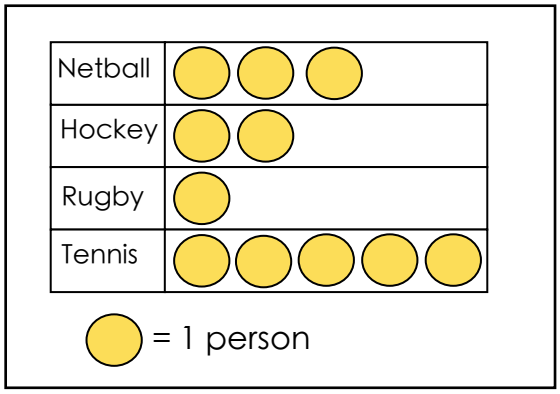
Set A

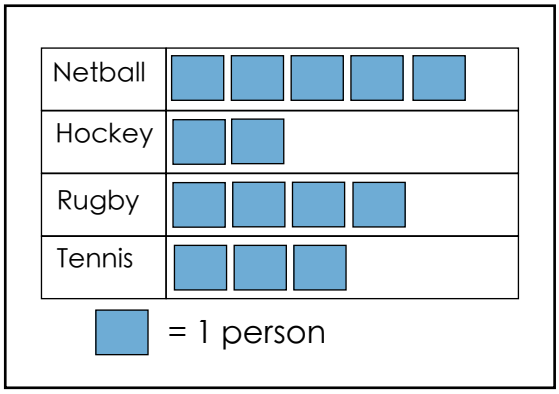
Hockey	Tennis
Rugby	Netball

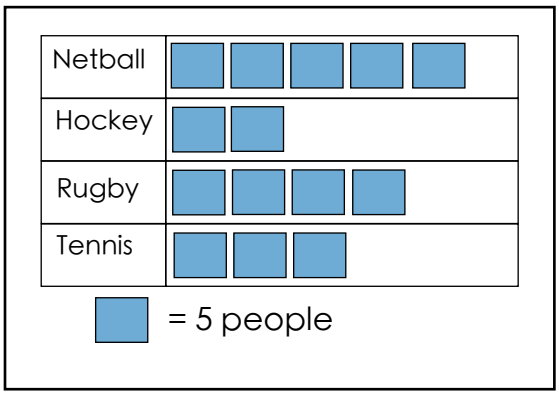
Pictogram Cards: Set B

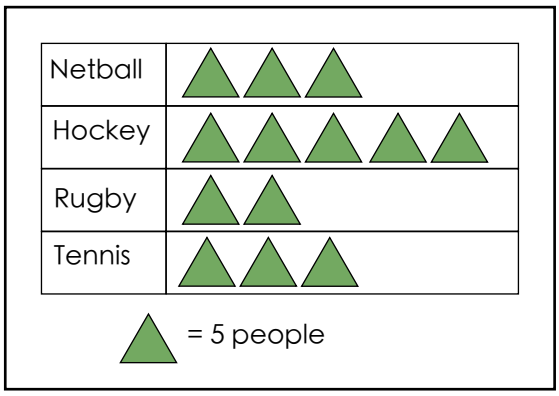


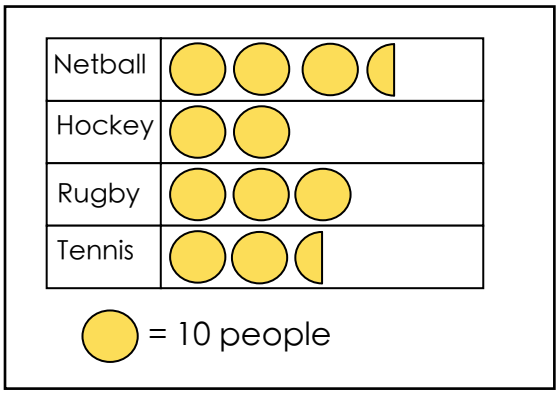


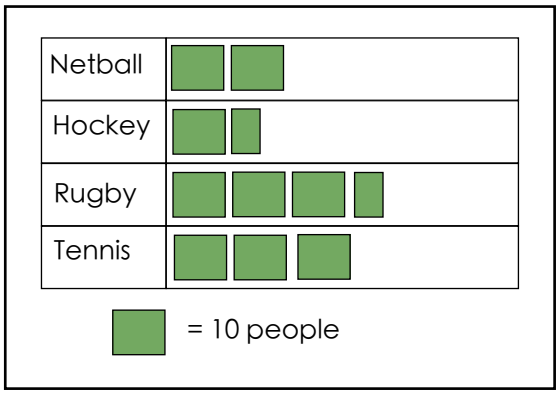






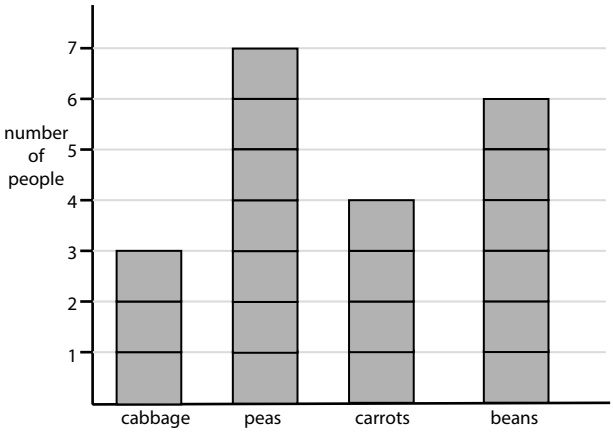






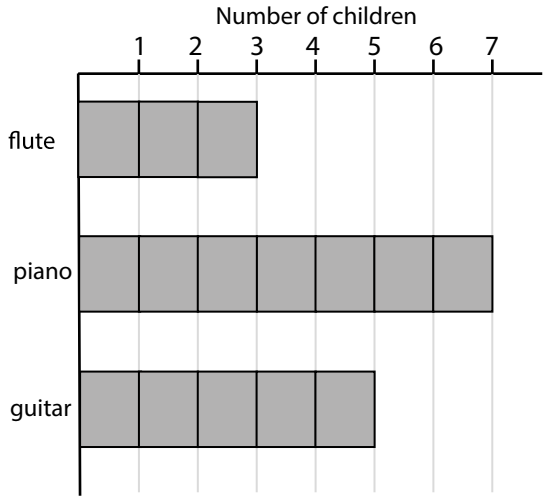
Do It 4

Block diagram to show people's favourite vegetables.



How many people were asked?
How many chose beans?
How many more people like peas than carrots?

Block diagram to show instruments children play.



How many children were asked?
How many children play the guitar?
How many more children play piano than flute?

Challenge It 4

Construct pictograms that match the information.

All the numbers must be multiples of 5.
50 children are asked to choose between football, netball, tennis and hockey.
10 children choose netball.
More choose football than hockey.
Fewer choose tennis than hockey.

Construct two different pictograms where ▭ = 5 children.

Now construct pictograms for the same information where ▭ = 10 children.

How many chose tennis each time?

Block Diagram Game

Play It 4

You need:
A bag of assorted Multilink cubes(or similar)
Block diagram template each

To play:
Players take turns to grab four cubes from the bag without looking.
They represent the colour of each cube on their block diagram.
They replace the cubes into the bag.

To win:
The winner is the first player to build a block of five for any of the colours.