

TIS
SINGAPORE
MATH PARENT
WORKSHOP
G1-2

November 2015

- ▶ Noticing patterns
- ▶ Making connections
- ▶ Understanding math ideas
- ▶ Using language to understand and solve problems
- ▶ Communicating understanding

WHY SINGAPORE MATH?

A decorative graphic consisting of several parallel white lines of varying lengths, slanted diagonally from the bottom right towards the top right, set against the orange background.

Noticing patterns



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

Math ideas and concepts

C-P-A

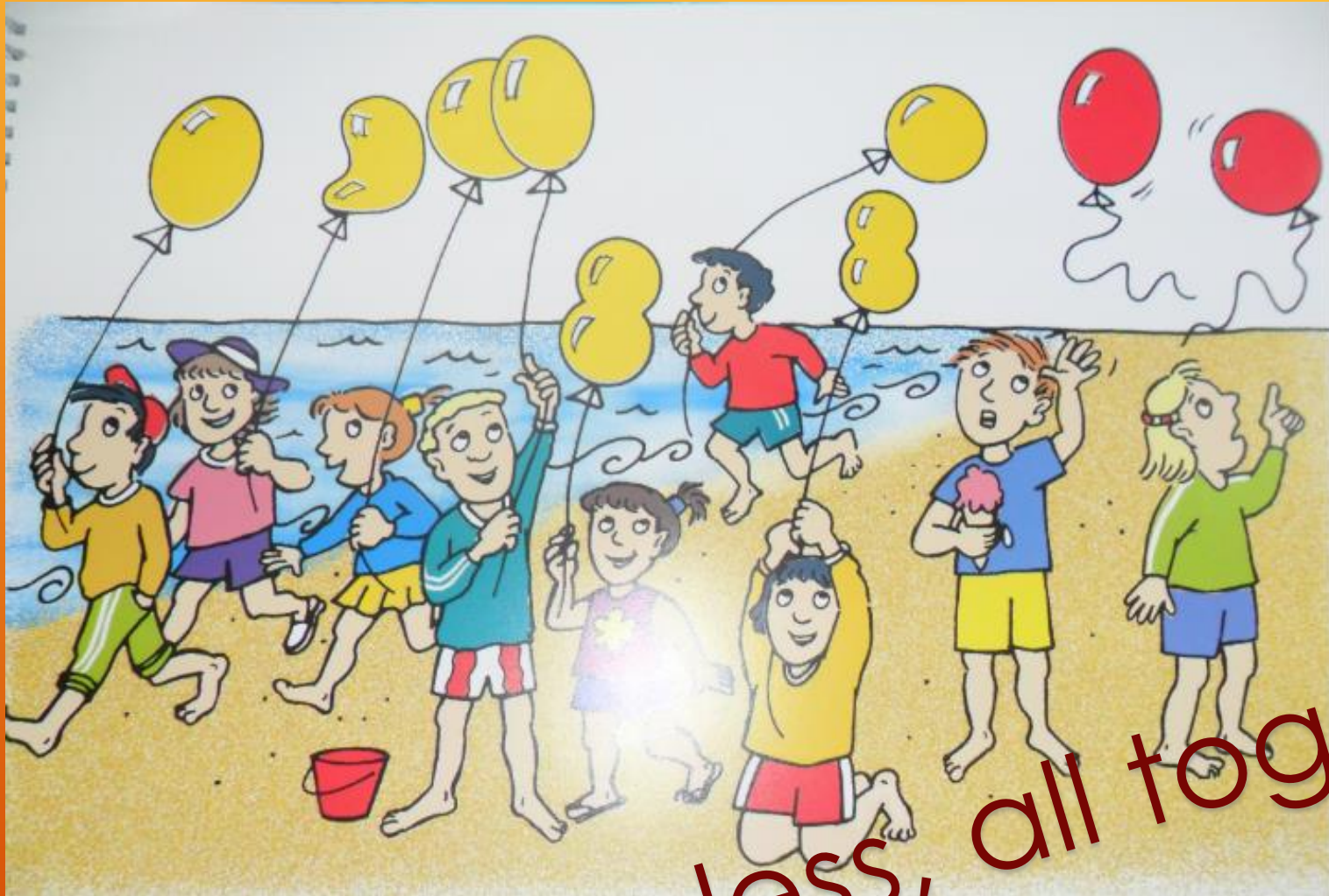
Concrete-Pictorial-Abstract
(Touch it, Model it, Think it)

$4 + 6 = 10$

www.communication4all.co.uk



Using Language to understand math problems



more, less, all together

Sharing understanding

16 Oct 1978



There were 6 bears in the forest.
Then 1 more came. Now there
were 7 bears in the forest.

$$6 + 1 = 7$$

- ▶ Touch and talk
- ▶ Relate and recall – tell stories
- ▶ Count and write
- ▶ Group and compare
- ▶ Number facts - automaticity
- ▶ Math vocabulary
- ▶ Draw models of word problems
- ▶ Explain and show how you worked it out

BIG IDEAS IN G1-2



- ▶ Read the problem, underline question
- ▶ Write a statement
- ▶ Read sentence by sentence and
 - ▶ Use objects to demonstrate
 - ▶ Put the information into a bar model
 - ▶ Use number bonds
- ▶ Put a ? on the model
- ▶ Work it out numbers
- ▶ Put the answer into the statement

STEPS TO SOLVING WORD PROBLEMS

Jack has 10 drums. 6 of them are black and the rest are white. How many white drums does Jack have?

LET'S SOLVE A PROBLEM

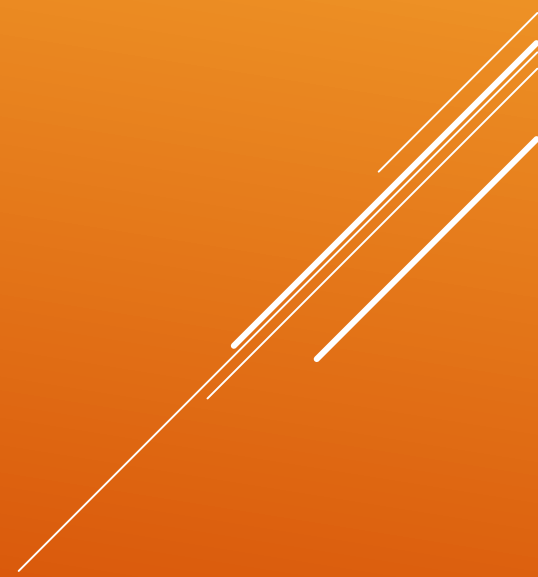
A decorative graphic consisting of several parallel white lines of varying lengths, slanted diagonally from the bottom right towards the top right, set against the orange background.

Read the problem, underline question

Jack has 10 drums. 6 of them are black and the rest are white. How many white drums does Jack have?

Jack has 10 drums. 6 of them are black and the rest are white. How many white drums does Jack have?

Jack has _____ white drums.



6 black drums



Read sentence by sentence

Use objects to demonstrate
Put the information into a bar
model!

Jack has 10 drums. 6 of them are black and the rest are white.

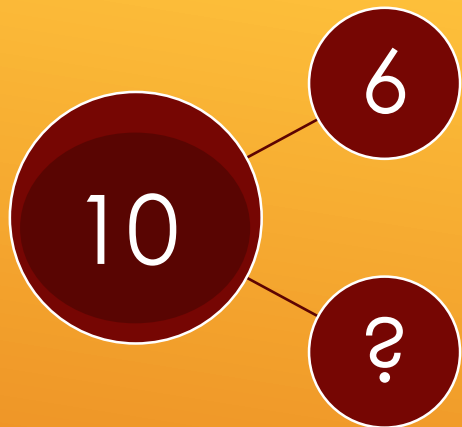
How many white drums does Jack have?

Jack has _____ white drums.

6 black drums



10 drums altogether



Put a ? on the model
Use number bonds

Jack has 10 drums. 6 of them are black and the rest are white. How many white drums does Jack have?

6 black drums

? white drums

1 2 3 4 5 6

10 drums altogether

A horizontal row of 10 square boxes. The first six boxes each contain a black drum. Above the first six boxes is the text "6 black drums". Above the last four boxes is the text "? white drums". Below the entire row is the text "10 drums altogether". The seventh box contains a large blue question mark.

Put the answer into the statement

Jack has 10 drums. 6 of them are black and the rest are white. How many white drums does Jack have?

Jack has 4 white drums.

6 black drums

? white drums

1

2

3

4

5

6

1

2

3

4



10 drums altogether

QUESTIONS

