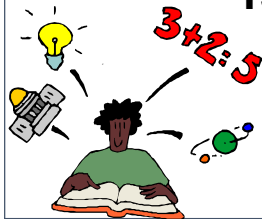


Northoaks Primary School

Primary 1 & 2 Mathematics Workshop for Parents

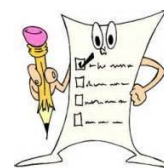
13 April 2018 (Friday)



Make A List

Make an organised list in the form
of table or chart

Classify information by certain
characteristics



Question 1

1st ball	2nd ball
orange	blue
orange	pink
blue	pink

Show your working by listing in order.

She has **3** choices.

Question 2

1st student	2nd student
David	Sara
David	Muthu
Sara	Muthu

Show your working by listing in order.

He has **3** different choices.

Question 3

1st drink	2nd drink
coffee	tea
coffee	fruit juice
tea	fruit juice

Show your working by listing in order.

She has **3** choices.

Question 4

1st fruit	2nd fruit
apple	orange
apple	guava
apple	mango
orange	guava
orange	mango
guava	mango

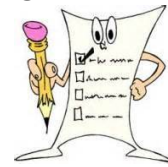
Show your working by listing in order.

He has **6** choices.

Guess & Check

Make calculated guess of the solution and check if the guess satisfies all the conditions given in the problem.

A table is used to record the guesses



Question 1

No. of goats	No. of legs	No. of chickens	No. of legs	Total no. of legs	Check
18	72	18	36	108	X
19	76	17	34	110	X
22	88	14	28	116	X
25	100	11	22	122	✓

There are **25** goats and **11** chickens.

Question 2

No. of tricycles	No. of wheels	No. of bicycles	No. of wheels	Total no. of wheels	Check
25	75	25	50	125	X
24	72	26	52	124	X
26	78	24	48	126	✓

There are **26** tricycles and **24** bicycles.

Question 3

No. of chickens	No. of legs	No. of cows	No. of legs	Total no. of legs	Check
20	40	10	40	80	X
19	38	11	44	82	✓
18	36	12	48	84	X

There are **19** chickens and **11** cows.

Question 4

Mr Tan bought 15 tables and chairs for \$115.

Each table cost \$10.

Each chair cost \$5.

How many tables did Mr Tan buy?

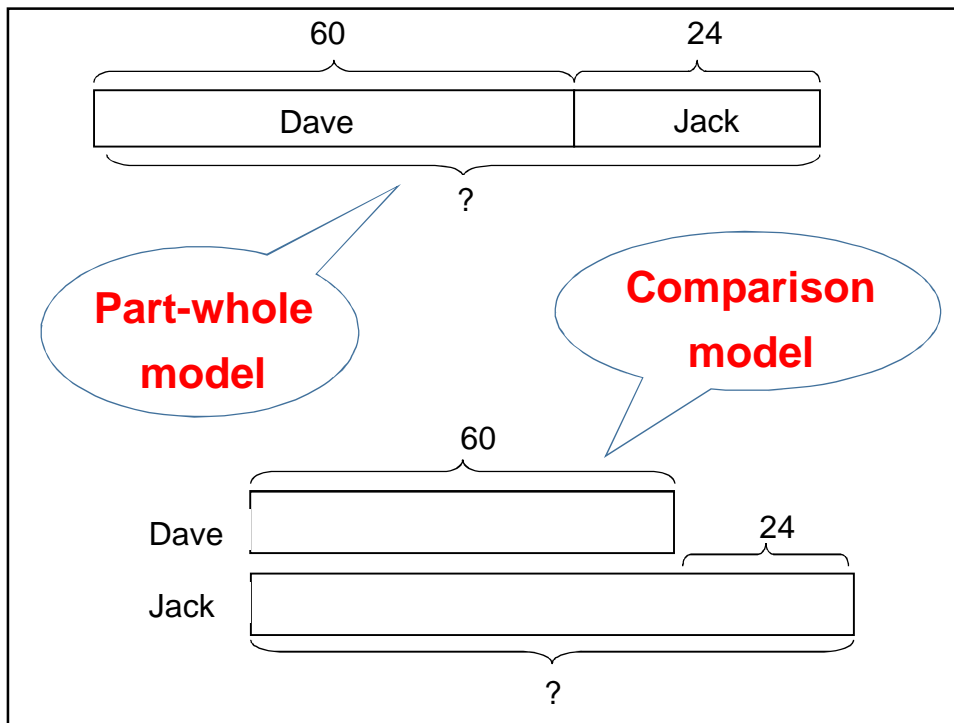
No. of tables	Amount (\$)	No. of chairs	Amount (\$)	Total amount (\$)	Check
6	60	9	45	105	X
7	70	8	40	110	X
8	80	7	35	115	✓

Mr Tan bought **8** tables.

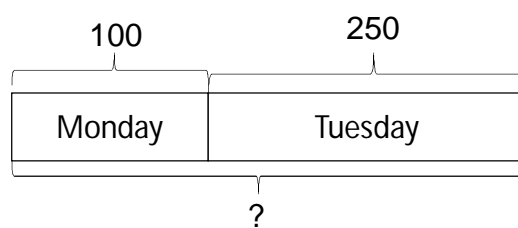
Draw a diagram

Present information given in a problem using a diagram (model drawing) so that the problem is more visual for the pupils.





Question 1

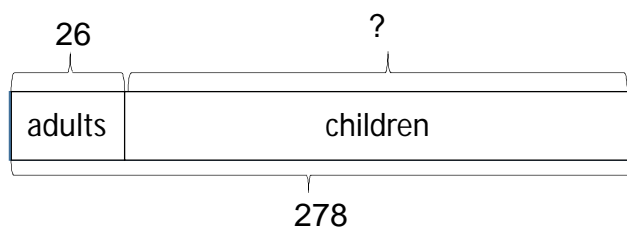


Draw the **part-whole model** to represent the 2 numbers given.

$$100 + 250 = 350$$

He sold **350** eggs on both days.

Question 2

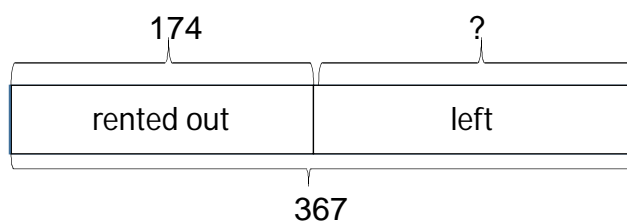


$$278 - 26 = 252$$

There are **252** children.

Draw the **part-whole model** to represent the 2 numbers given.

Question 3

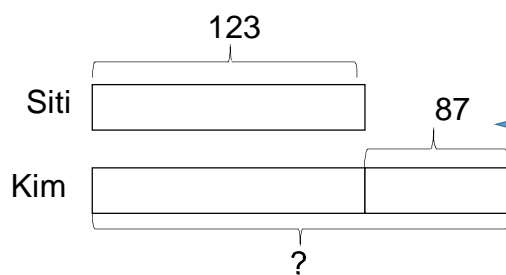


$$367 - 174 = 193$$

193 bicycles were left.

Draw the **part-whole model** to represent the 2 numbers given.

Question 4

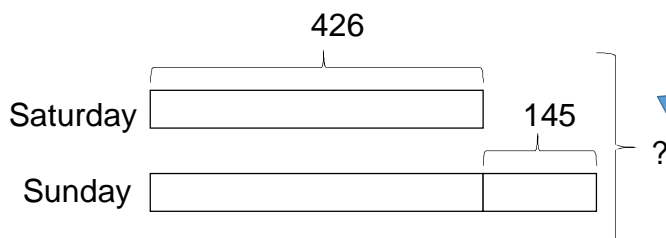


$$123 + 87 = 210$$

Kim folded **210** paper cranes.

Draw the **comparison model** to represent the information given.

Question 5



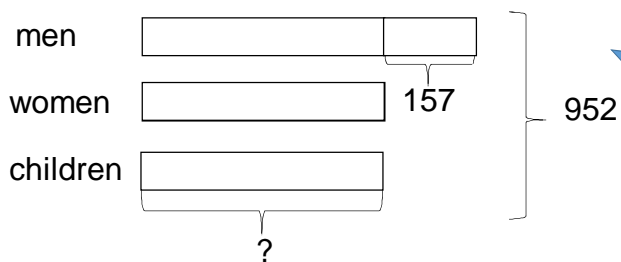
$$426 + 145 = 571$$

$$571 + 426 = 997$$

There were **997** visitors on both days.

Draw the **comparison model** to represent the information given.

Question 6



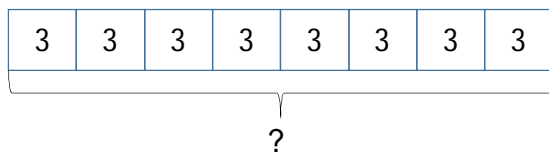
Draw the **comparison model** to represent the information given.

$$952 - 157 = 795$$

$$795 \div 3 = 265$$

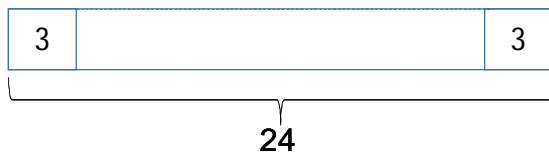
265 children watched the musical.

Question 7



$$8 \times 3 = 24$$

He has **24** marbles altogether.

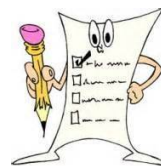
Question 8

$$24 \div 3 = 8$$

Lily has **8** dolls.

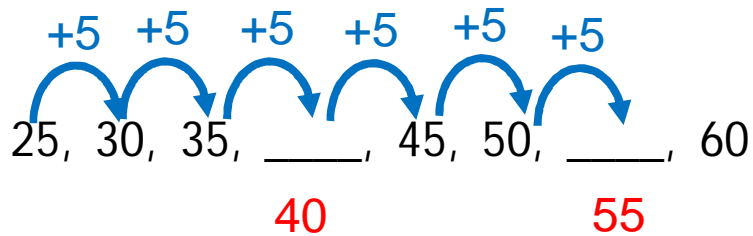
Look for Pattern

Identify general relationships among the elements in a given problem.



Question 1

Complete the number pattern below.



Pattern: Add 5

Question 2

Which pattern requires 21 matchsticks?

Pattern No.	1	2	3	7
Number of matchsticks	1x3=3	2x3=6	3x3=9	7x3=21

Question 3

Complete the number pattern below.

675, 660, 645, 630, 615, 600, 585, 570

Pattern: Subtract 15

Question 4

How many toothpicks will Figure 8 need?

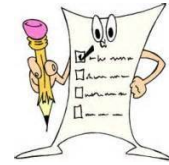
Figure	1	2	3	4
No. of toothpicks	3	$3+2 = 5$	$3+2+2 = 7$	$3+2+2+2 = 9$ OR $3+(4-1) \times 2 = 9$

$$\text{Figure 8} \rightarrow 3 + (8-1) \times 2 = 3+14 \\ = 17$$

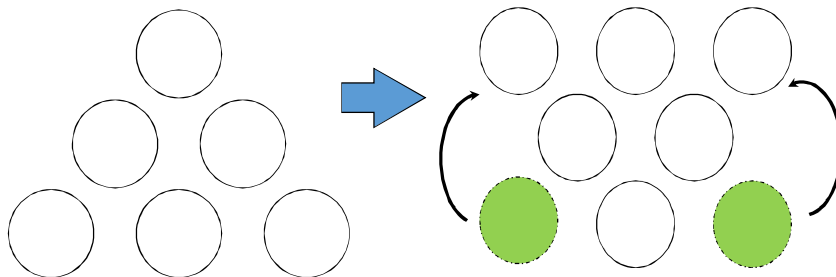
Figure 8 will need 17 toothpicks.

Act It Out

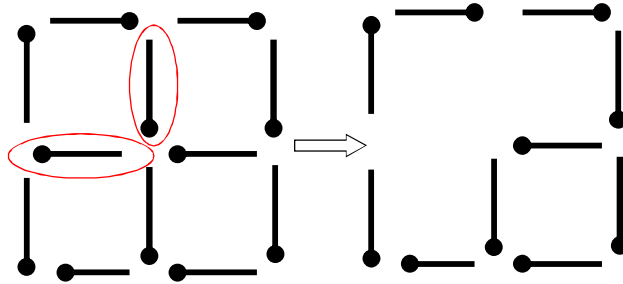
Represent data with physical objects or manipulative materials and attach conditions to actions.



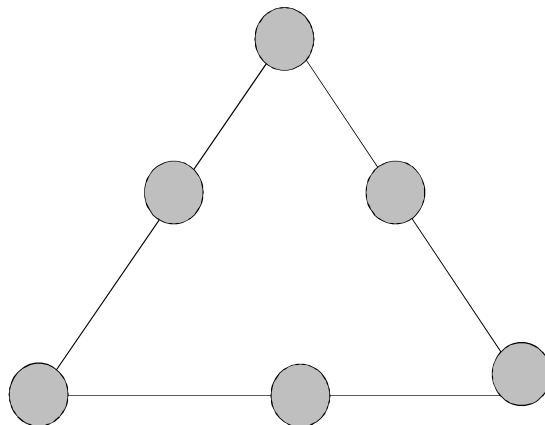
Question 1



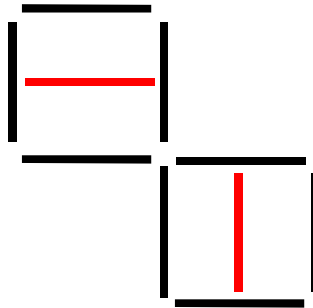
Question 2



Question 3



Question 4



Work Backwards

Begin at the end state, reverse the conditions given and work backwards till a solution is reached.

Use of a diagram is helpful in the process of reversing the conditions



Question 1

First, we will add back the number of sweets she gave to her friend:

$$15 + 35 = 50$$

Then, we will add the number of sweets she gave to her brother:

$$50 + 25 = 75$$

Amy had **75** sweets at first.

Question 2

First, we will subtract the number of stickers his mum gave him:

$$72 - 31 = 41$$

Then, we will subtract the number of stickers he bought:

$$41 - 21 = 20$$

He had **20** stickers at first.

Question 3

$$220 - 56 = 164$$

$$164 - 29 = 135$$

She had **135** marbles at first.

Question 4

$$41 + 24 = 65$$

$$63 + 65 = 128$$

She baked **128** cookies.