



1. a. Kayla is sorting her nail varnishes by colour. She records the colours in a tally chart. Complete the table and calculate the total number of nail varnishes in her collection.

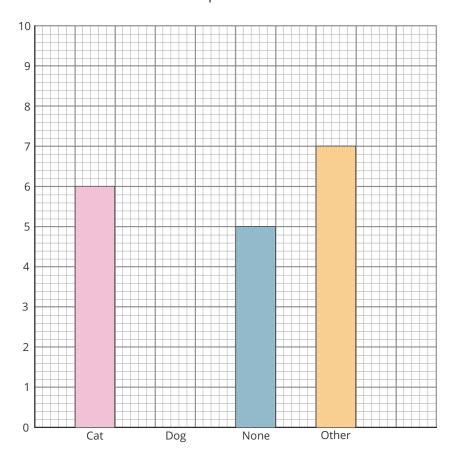
Colour	Tally	Frequency
Red	Ht II	7
Pink		
Blue		
Green		3
Black		
Other		13
Total		

b. Kayla gives her sister, Brooke, two red and three pink nail varnishes for her pamper party. Kayla then receives three nail varnishes in her favourite colour (blue), as presents. Represent the number of nail varnishes now owned by Kayla in the table.

Colour	Tally	Frequency
Red		
Pink		
Blue		
Green		
Black		
Other		
Total		

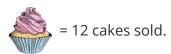


2. The bar chart represents the number of pets owned by children in class 7A. Complete the bar chart and the table to represent this information.



Pet	Frequency
Cat	6
Dog	
None	
Other	
Total	26

3. Year seven hold a charity cake sale. The total cakes sold, by each class, in the sale are represented in the pictogram. Complete the table to calculate the total number of cakes sold in the charity cake sale.



Class	Cakes Sold	Frequency
7A		
7B		
7 C		
7D		
7E		
Total		



3

Addition and Subtraction: **Completing Tables and Frequency Diagrams**

4. The two-way table shows the ownership of laptops for years seven and eight. Fill in the missing values in the table.

	Laptop	No Laptop	Total
Year 7	55	70	
Year 8		56	
Total	114		240

a.	How	many	students	are ir	n year	7?
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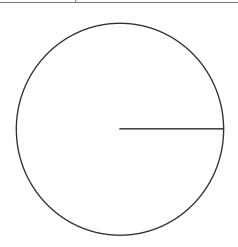
b.	How	many	year	8	students	own	а	laptop?

c. How many students, in total, do not own a laptop?

Challenge

Year seven were asked to choose their favourite PE lesson out of the sports shown in the table. Construct an accurate pie chart to show this information. You should show your workings.

Sport	Frequency	Angle
Football	40	
Rugby	20	
Netball	25	
Hockey		
Total	120	







Answers

1. a. Kayla is sorting her nail varnishes by colour. She records the colours in a tally chart. Complete the table and calculate the total number of nail varnishes in her collection.

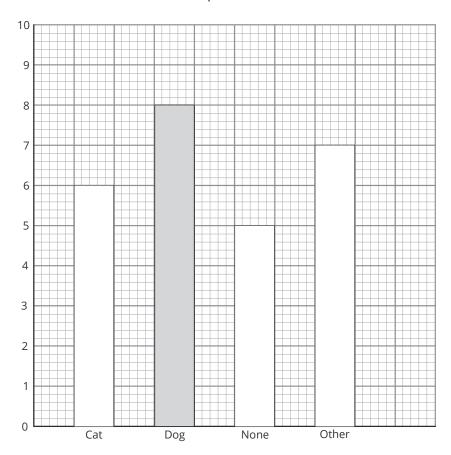
Colour	Tally	Frequency
Red	Ht II	7
Pink		10
Blue		8
Green	III	3
Black		9
Other		13
Total		50

b. Kayla gives her sister, Brooke, two red and three pink nail varnishes for her pamper party. Kayla then receives three nail varnishes in her favourite colour (blue), as presents. Represent the number of nail varnishes now owned by Kayla in the table.

Colour	Tally	Frequency
Red	##	5
Pink	## II	7
Blue		11
Green	III	3
Black	## IIII	9
Other		13
Total		48



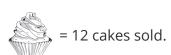
2. The bar chart represents the number of pets owned by children in class 7A. Complete the bar chart and the table to represent this information.



Pet	Frequency
Cat	6
Dog	8
None	5
Other	7
Total	26

A bar of height 8 should be seen in the dog column. 26 - (6 + 5 + 7) = 8

3. Year seven hold a charity cake sale. The total cakes sold, by each class, in the sale are represented in the pictogram. Complete the table to calculate the total number of cakes sold in the charity cake sale.



Class	Cakes Sold	Frequency
7A		12
7B		12 + 6 = 18
7C		12 + 12 + 3 = 27
7D		12 + 9 = 21
7E		12 + 12 + 6 = 30
Total		108



4. The two-way table shows the ownership of laptops for years seven and eight. Fill in the missing values in the table.

	Laptop	No Laptop	Total
Year 7	55	70	125
Year 8	59	56	115
Total	114	126	240

a. How many students are in year 7?

b. How many year 8 students own a laptop?

c. How many students, in total, do not own a laptop?

Challenge

Year seven were asked to choose their favourite PE lesson out of the sports shown in the table. Construct an accurate pie chart to show this information. You should show your workings.

Sport	Frequency	Angle
Football	40	40 × 3 = 120°
Rugby	20	20 × 3 = 60°
Netball	25	25 × 3 = 75°
Hockey	35	35 × 3 = 105°
Total	120	360°

