

Problem 3

Work out the missing number
 $75 + 13 + ?? = 140$

How many teams scored more than 3 goals?

Team	No. of goals
A	3
B	5
C	4
D	2

Express 96 out of 400 as a percentage

The table shows the number of brothers and sisters of the students in year 7.

What percentage of students have more than 1 brother or sister?

Number of brothers and sisters

1	2	3	4	
62		8		104
	24	14		
118			6	200

Year 7 Male students

Year 7 Female students

Problem 3

Work out the missing number

$$75 + 13 + ?? = 140$$

52

How many teams scored more than 3 goals?

Team	No. of goals
A	3
B	5
C	4
D	2

2 teams

Express 96 out of 400 as a percentage

24%

The table shows the number of brothers and sisters of the students in year 7.

What percentage of students have more than 1 brother or sister?

Number of brothers and sisters

1	2	3	4	
62	30	8	4	104
56	24	14	2	96
118	54	22	6	200

Year 7 Male students

Year 7 Female students

$$54+22+6 = 82 \text{ students}$$

41%

PROBLEM 3A

The table shows the sports chosen by 400 students at a college. What percentage of the students are female who chose either cricket or tennis?

	Cricket	Football	Tennis	Athletics	
Male	44		52		210
Female		52		34	
	100			80	

PROBLEM 3A

The table shows the sports chosen by 400 students at a college. What percentage of the students are female who chose either cricket or tennis?

	Cricket	Football	Tennis	Athletics	
Male	44	68	52	46	210
Female	56	52	48	34	190
	100	120	100	80	400

$$56 + 48 = 104 \quad 104 \div 400 \times 100 = 26\%$$

PROBLEM 3B

The table shows the subjects studied by 150 students. What percentage of the students studied art or history?

	History	Art	Technology	
Group A	6		24	45
Group B		18	15	54
Group C	18		3	
				150

PROBLEM 3B

The table shows the subjects studied by 150 students. What percentage of the students studied art or history?

	History	Art	Technology	
Group A	6	15	24	45
Group B	21	18	15	54
Group C	18	30	3	51
	45	63	42	150

$$45 + 63 = 108 \quad 108 \div 150 \times 100 = 72\%$$

PROBLEM 3C

The table shows the TV programmes watched by 800 students. What percentage of the students are in Year 8 or 9 and chose Sport?

	Year 7	Year 8	Year 9	Year 10	
Soaps		48	80	96	
Sport	120		84		
Films		38	46	20	176
	220			180	

PROBLEM 3C

The table shows the TV programmes watched by 800 students. What percentage of the students are in Year 8 or 9 and chose Sport?

	Year 7	Year 8	Year 9	Year 10	
Soaps	28	48	80	96	252
Sport	120	104	84	64	372
Films	72	38	46	20	176
	220	190	210	180	800

$$104 + 84 = 188 \quad 188 \div 800 \times 100 = 23.5\%$$

PROBLEM 3D

The table shows the visitor to an attraction over a bank holiday weekend. What percentage of the visitors are adults who visited on Friday or Monday?

	Friday	Saturday	Sunday	Monday	
Juniors	35	225	125	235	
Adults	40		55		280
Seniors		15		20	100
	125	320			

PROBLEM 3D

The table shows the visitor to an attraction over a bank holiday weekend. What percentage of the visitors are adults who visited on Friday or Monday?

	Friday	Saturday	Sunday	Monday	
Juniors	35	225	125	235	620
Adults	40	80	55	105	280
Seniors	50	15	15	20	100
	125	320	195	360	1000

$$40 + 105 = 145 \quad 145 \div 1000 \times 100 = 14.5\%$$

PROBLEM 3A

The table shows the sports chosen by 400 students at a college. What percentage of the students are female who chose either cricket or tennis?

	Cricket	Football	Tennis	Athletics	
Male	44		52		210
Female		52		34	
	100			80	

PROBLEM 3B

The table shows the subjects studied by 150 students. What percentage of the students studied art or history?

	History	Art	Technology	
Group A	6		24	45
Group B		18	15	54
Group C	18		3	
				150

PROBLEM 3C

The table shows the TV programmes watched by 800 students. What percentage of the students are in Year 8 or 9 and chose Sport?

	Year 7	Year 8	Year 9	Year 10	
Soaps		48	80	96	
Sport	120		84		
Films		38	46	20	176
	220			180	

PROBLEM 3D

The table shows the visitor to an attraction over a bank holiday weekend. What percentage of the visitors are adults who visited on Friday or Monday?

	Friday	Saturday	Sunday	Monday	
Juniors	35	225	125	235	
Adults	40		55		280
Seniors		15		20	100
	125	320			

PROBLEM 3A

The table shows the sports chosen by 400 students at a college. What percentage of the students are female who chose either cricket or tennis?

	Cricket	Football	Tennis	Athletics	
Male	44	68	52	46	210
Female	56	52	48	34	190
	100	120	100	80	400

$$56 + 48 = 104 \quad 104 \div 400 \times 100 = 26\%$$

PROBLEM 3C

The table shows the TV programmes watched by 800 students. What percentage of the students are in Year 8 or 9 and chose Sport?

	Year 7	Year 8	Year 9	Year 10	
Soaps	28	48	80	96	252
Sport	120	104	84	64	372
Films	72	38	46	20	176
	220	190	210	180	800

$$104 + 84 = 188 \quad 188 \div 800 \times 100 = 23.5\%$$

PROBLEM 3B

The table shows the subjects studied by 150 students. What percentage of the students studied art or history?

	History	Art	Technology	
Group A	6	15	24	45
Group B	21	18	15	54
Group C	18	30	3	51
	45	63	42	150

$$45 + 63 = 108 \quad 108 \div 150 \times 100 = 72\%$$

PROBLEM 3D

The table shows the visitor to an attraction over a bank holiday weekend. What percentage of the visitors are adults who visited on Friday or Monday?

	Friday	Saturday	Sunday	Monday	
Juniors	35	225	125	235	620
Adults	40	80	55	105	280
Seniors	50	15	15	20	100
	125	320	195	360	1000

$$40 + 105 = 145 \quad 145 \div 1000 \times 100 = 14.5\%$$