

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 | |
|------------------------|-----|----|----|---|-----|
| Year 7 Male students | 62 | | 8 | | 104 |
| Year 7 Female students | | 24 | 14 | | |
| | 118 | | | 6 | 200 |

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 | |
|------------------------|-----|----|----|---|-----|
| Year 7 Male students | 62 | 30 | 8 | 4 | 104 |
| Year 7 Female students | 56 | 24 | 14 | 2 | 96 |
| | 118 | 54 | 22 | 6 | 200 |

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

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 | |

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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 | |

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| | 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 | | | |

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

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

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