

# Year 4 PROMPT sheet

## 4/1 Count in multiples

Now you must learn these multiples

| Multiples of 6 | Multiples of 7 | Multiples of 9 | Multiples of 25 |
|----------------|----------------|----------------|-----------------|
| 6              | 7              | 9              | 25              |
| 12             | 14             | 18             | 50              |
| 18             | 21             | 27             | 75              |
| 24             | 28             | 36             | 100             |
| 30             | 35             | 45             | 125             |
| 36             | 42             | 54             | 150             |
| 42             | 49             | 63             | 175             |
| 48             | 56             | 72             | 200             |
| 54             | 63             | 81             | 225             |
| 60             | 70             | 90             | 250             |

## 4/2 Find 1000 more or less

| thousands | hundreds | tens | units |
|-----------|----------|------|-------|
| 4         | 5        | 6    | 7     |

To increase or decrease by 1000 this is the digit that changes.

4567 has increased by 1000 to **5**567

| thousands | hundreds | tens | units |
|-----------|----------|------|-------|
| 5         | 5        | 6    | 7     |

4567 has decreased by 1000 to **3**567

| thousands | hundreds | tens | units |
|-----------|----------|------|-------|
| 3         | 5        | 6    | 7     |

## 4/2 Round to nearest 10, 100, 1000,

**Example 1-** Round **4279** to the nearest **1000**

- Step 1 - Find the 'round-off digit' - **4**
- Step 2 - Look one digit to the right of **4** - **2**

5 or more? NO - leave 'round off digit' unchanged  
- Replace following digits with zeros

ANSWER - 4000

**Example 2-** Round **4279** to the nearest **10**

- Step 1 - Find the 'round-off digit' - **7**
- Step 2 - Look one digit to the right of **7** - **9**

5 or more? YES - Add one to the 'round off digit'  
- Replace following digits with zeros

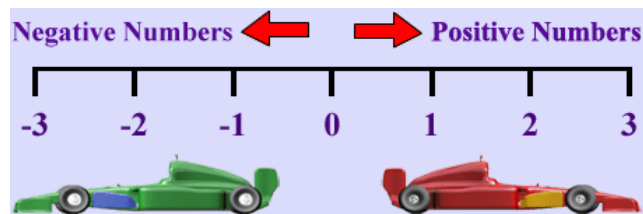
ANSWER - 4280

## 4/3 Negative numbers

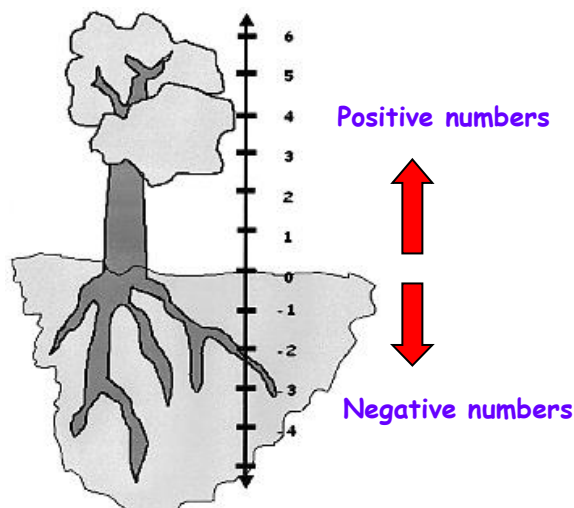
Negative numbers are numbers **BELOW ZERO**

### Think of a number line

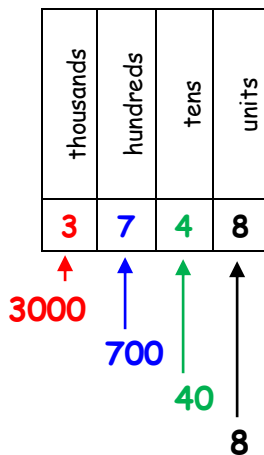
- Horizontal number line



- Vertical number line



#### 4/4 Place value



#### 4/5 Roman Numerals to 100

The numbers 1-100 are constructed from these:

I = 1  
 V = 5  
 X = 10  
 L = 50  
 C = 100

|       |    |         |    |        |    |          |     |
|-------|----|---------|----|--------|----|----------|-----|
| I     | 1  | XXVI    | 26 | LI     | 51 | LXXVI    | 76  |
| II    | 2  | XXVII   | 27 | LII    | 52 | LXXVII   | 77  |
| III   | 3  | XXVIII  | 28 | LIII   | 53 | LXXVIII  | 78  |
| IV    | 4  | XXIX    | 29 | LIV    | 54 | LXXIX    | 79  |
| V     | 5  | XXX     | 30 | LV     | 55 | LXXX     | 80  |
| VI    | 6  | XXXI    | 31 | LVI    | 56 | LXXXI    | 81  |
| VII   | 7  | XXXII   | 32 | LVII   | 57 | LXXXII   | 82  |
| VIII  | 8  | XXXIII  | 33 | LVIII  | 58 | LXXXIII  | 83  |
| IX    | 9  | XXXIV   | 34 | LIX    | 59 | LXXXIV   | 84  |
| X     | 10 | XXXV    | 35 | LX     | 60 | LXXXV    | 85  |
| XI    | 11 | XXXVI   | 36 | LXI    | 61 | LXXXVI   | 86  |
| XII   | 12 | XXXVII  | 37 | LXII   | 62 | LXXXVII  | 87  |
| XIII  | 13 | XXXVIII | 38 | LXIII  | 63 | LXXXVIII | 88  |
| XIV   | 14 | XXXIX   | 39 | LXIV   | 64 | LXXXIX   | 89  |
| XV    | 15 | XL      | 40 | LXV    | 65 | XC       | 90  |
| XVI   | 16 | XLI     | 41 | LXVI   | 66 | XCI      | 91  |
| XVII  | 17 | XLII    | 42 | LXVII  | 67 | XCII     | 92  |
| XVIII | 18 | XLIII   | 43 | LXVIII | 68 | XCIII    | 93  |
| XIX   | 19 | XLIV    | 44 | LXIX   | 69 | XCIV     | 94  |
| XX    | 20 | XLV     | 45 | LXX    | 70 | XCV      | 95  |
| XXI   | 21 | XLVI    | 46 | LXXI   | 71 | XCVI     | 96  |
| XXII  | 22 | XLVII   | 47 | LXXII  | 72 | XCVII    | 97  |
| XXIII | 23 | XLVIII  | 48 | LXXIII | 73 | XCVIII   | 98  |
| XXIV  | 24 | XLIX    | 49 | LXXIV  | 74 | XCIX     | 99  |
| XXV   | 25 | L       | 50 | LXXV   | 75 | C        | 100 |

#### 4/6 Estimate a calculation

- Round off each number so that the calculation is easy to do

Example 1:  $644 \times 11$

To make it easy use:

$$600 \times 11 = 6600 \text{ or } 600 \times 10 = 6000$$

Example 2:  $503.926 + 709.328$

To make it easy use:

$$500 + 700 = 1200$$

Example 3: Half of 51.4328963

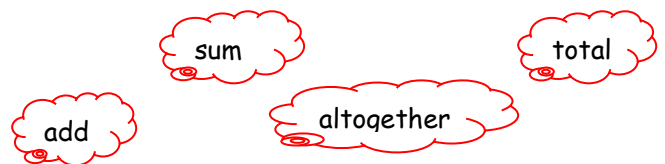
To make it easy use:

$$\text{Half of } 50 = 25$$

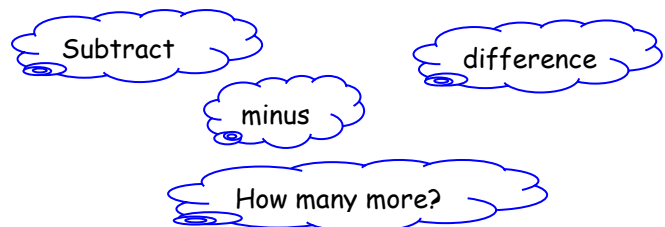
#### 4/7 Addition & subtraction problems

(Based upon 4/6)

Words associated with addition:



Words associated with subtraction:



#### 4/8 Multiplication tables

Times Table - 12x12

|    |    |    |    |    |    |    |    |    |     |     |     |     |    |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|----|
|    |    | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8   | 9   | 10  | 11  | 12 |
| 1  | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9   | 10  | 11  | 12  |    |
| 2  | 2  | 4  | 6  | 8  | 10 | 12 | 14 | 16 | 18  | 20  | 22  | 24  |    |
| 3  | 3  | 6  | 9  | 12 | 15 | 18 | 21 | 24 | 27  | 30  | 33  | 36  |    |
| 4  | 4  | 8  | 12 | 16 | 20 | 24 | 28 | 32 | 36  | 40  | 44  | 48  |    |
| 5  | 5  | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45  | 50  | 55  | 60  |    |
| 6  | 6  | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54  | 60  | 66  | 72  |    |
| 7  | 7  | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63  | 70  | 77  | 84  |    |
| 8  | 8  | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72  | 80  | 88  | 96  |    |
| 9  | 9  | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81  | 90  | 99  | 108 |    |
| 10 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90  | 100 | 110 | 120 |    |
| 11 | 11 | 22 | 33 | 44 | 55 | 66 | 77 | 88 | 99  | 110 | 121 | 132 |    |
| 12 | 12 | 24 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 |    |

Remember:

$$7 \times 8 = 56 \quad 8 \times 7 = 56 \quad 56 \div 7 = 8 \quad 56 \div 8 = 7$$

## 4/9 Factor pairs

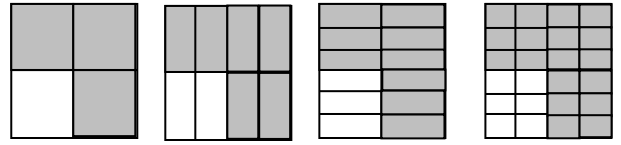
The number 12 can be made from these factor pairs

1 × 12  
2 × 6  
3 × 4  
4 × 3  
6 × 2  
12 × 1

From these factor pairs we can see that the factors of 12 are: 1, 2, 3, 4, 6, 12

$$\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{8}{16}$$

ALL THESE ARE  $\frac{3}{4}$



$$\frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \frac{18}{24}$$

## 4/10 Multiply by a single digit number

Example:  $342 \times 7$

|   |   |  |
|---|---|--|
| $\begin{array}{r} 342 \\ \times 7 \\ \hline 2394 \\ \phantom{2}1 \end{array}$ | $\begin{array}{r} 342 \\ \times 217 \\ \hline 2394 \end{array}$ | $\begin{array}{l} 300 \times 7 = 2100 \\ 40 \times 7 = 280 \\ 2 \times 7 = 14 \\ \hline 342 \times 7 = 2394 \end{array}$ |
|---|---|--|

## 4/13 Hundredths

|      |       |   |        |            |
|------|-------|---|--------|------------|
| tens | units | • | tenths | hundredths |
| 8    | 2     | • | 6      | 4          |

This represents 4 hundredths =  $\frac{4}{100}$

To find a hundredth of an object or quantity you divide by 100

## 4/11 Connections between 2 sums

- Look for connections between the 2 sums

Example: We know  $342 \times 7 = 2394$  (See above)

So we also know  $342 \times 14 = 4788$

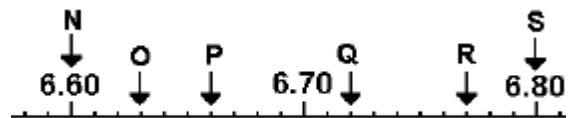
Example: We know  $342 \times 7 = 2394$  (See above)

So we also know  $684 \times 7 = 4788$

Example: We know  $342 \times 7 = 2394$  (See above)

So we also know  $342 \times 8 = 2394 + (342 \times 1) = 2736$

## 4/14 Counting in hundredths (continued)



$$O = 6.63$$

$$P = 6.66$$

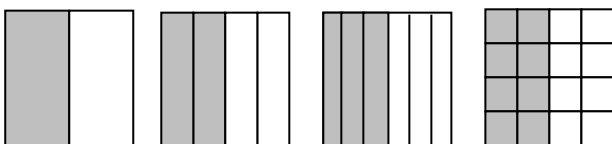
$$Q = 6.72$$

$$R = 6.77$$

## 4/12 Common equivalent fractions

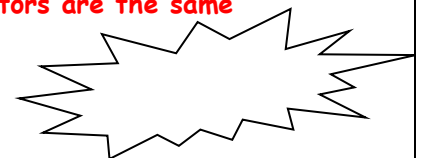
- The same fraction can be expressed in different ways

ALL THESE ARE  $\frac{1}{2}$



## 4/15 Add & subtract fractions

- To add and subtract fractions  
When the denominators are the same



$$\frac{5}{8} + \frac{3}{8} = \frac{8}{8} = 1$$

Do not add the denominators

$$\frac{5}{8} - \frac{1}{8} = \frac{4}{8}$$

Do not subtract the denominators

|  |   |  |   |
|--|---|--|---|
|  | 3 |  | 5 |
|--|---|--|---|

- To divide by 100, move each digit 2 places to the right

e.g.  $35 \div 100 = 0.35$

(we add a zero to show there are no whole numbers)

| Tens | Units | • | tenths | hundredths |
|------|-------|---|--------|------------|
| 3    | 5     | • |        |            |
|      | 0     | • | 3      | 5          |

#### 4/16 Decimal equivalents

| units | • | tenth |
|-------|---|-------|
| 0     | • | 6     |

$$0.6 \Leftrightarrow \frac{6}{10}$$

| units | • | tenths | hundredths |
|-------|---|--------|------------|
| 0     | • | 0      | 3          |

$$0.03 \Leftrightarrow \frac{3}{100}$$

| units | • | tenths | hundredths |
|-------|---|--------|------------|
| 0     | • | 6      | 3          |

$$0.63 \Leftrightarrow \frac{63}{100}$$

#### 4/16 Decimal equivalents

Others to learn are:

$$\frac{1}{4} = 0.25 \quad \frac{1}{2} = 0.5 \quad \frac{3}{4} = 0.75$$

#### 4/17 Effect of dividing by 10 and 100

- To divide by 10, move each digit one place to the right

e.g.  $35 \div 10 = 3.5$

| Tens | Units | • | tenths |
|------|-------|---|--------|
| 3    | 5     | • |        |
|      |       | • |        |

#### 4/18 Round decimals to nearest whole

The Rules:

- If the digit behind the decimal point is **LESS THAN 5**, the number is rounded **DOWN** to the next whole number

Example: 6.4 becomes rounded to 6

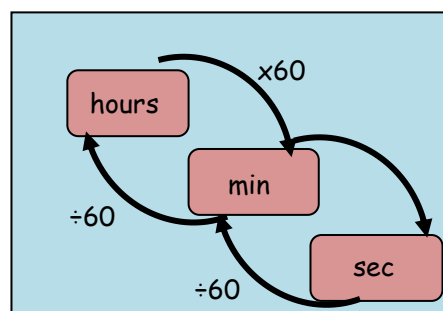
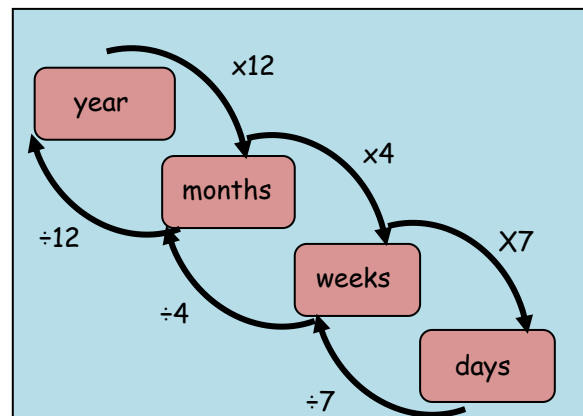
- If the digit behind the decimal point is **5 OR MORE**, the number is rounded **UP** to the next whole number

Example: 6.5 becomes rounded to 7

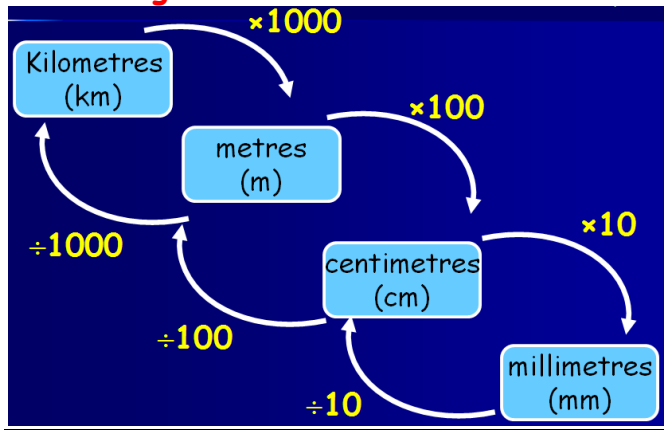
6.8 becomes rounded to 7

#### 4/19 Convert between units of measure

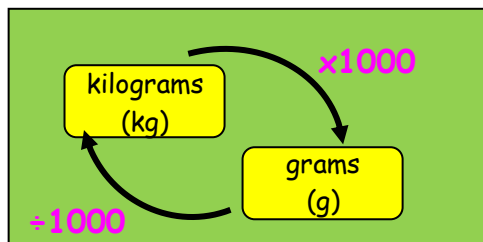
- Time**



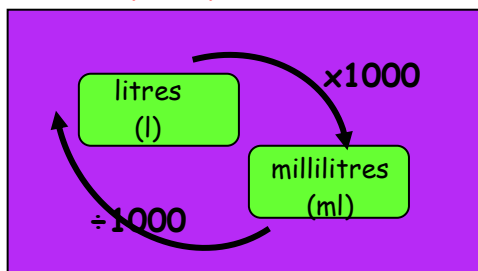
- Length



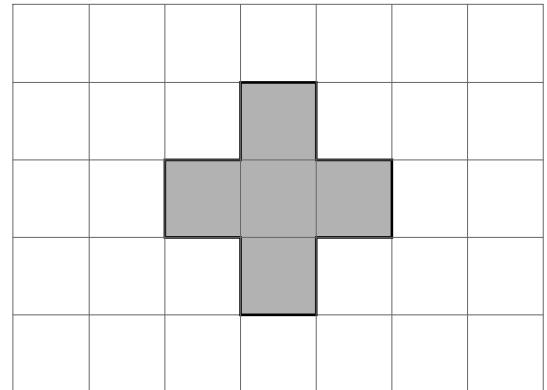
- Mass or weight



- Capacity or volume



- Area is the number of squares **INSIDE**  
Area of this shape =  $5\text{cm}^2$



#### 4/21 Estimate measures

- Capacity



a 5ml spoon



a 330ml can of drink



an average bucket holds 10 litres

#### 4/21 Estimate measures - continued

- Mass

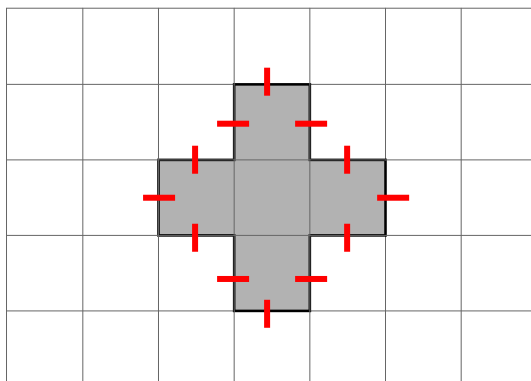


this apple weighs 125g

#### 4/20

#### Perimeter & area by counting

- Perimeter is round the **OUTSIDE**  
Perimeter of this shape = 12cm





this bag of sugar weighs 1kg



this man weighs 70kg

• Length



this pencil is 17cm long



length of classroom is 10m



distance to Exeter is 64miles

4/22 12- and 24-hour clock



| MORNING in 24-Hour Clock |        |        |        |        |        |        |        |        |        |         |         |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0000                     | 0100   | 0200   | 0300   | 0400   | 0500   | 0600   | 0700   | 0800   | 0900   | 1000    | 1100    |
| 12:00am (midnight)       | 1:00am | 2:00am | 3:00am | 4:00am | 5:00am | 6:00am | 7:00am | 8:00am | 9:00am | 10:00am | 11:00am |
| MORNING in 12-Hour Clock |        |        |        |        |        |        |        |        |        |         |         |

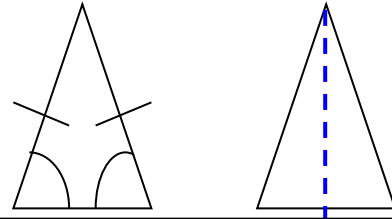
| AFTERNOON in 24-Hour Clock |        |        |        |        |        |        |        |        |        |         |         |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 1200                       | 1300   | 1400   | 1500   | 1600   | 1700   | 1800   | 1900   | 2000   | 2100   | 2200    | 2300    |
| 12:00pm (midday)           | 1:00pm | 2:00pm | 3:00pm | 4:00pm | 5:00pm | 6:00pm | 7:00pm | 8:00pm | 9:00pm | 10:00pm | 11:00pm |
| AFTERNOON in 12-Hour Clock |        |        |        |        |        |        |        |        |        |         |         |

4/23 - Properties of quadrilaterals & triangles

TRIANGLES - angles add up to 180°

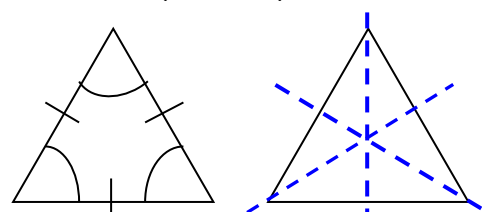
*Isosceles triangle*

- 2 equal sides
- 2 equal angles
- 1 line of symmetry
- No rotational symmetry



*Equilateral triangle*

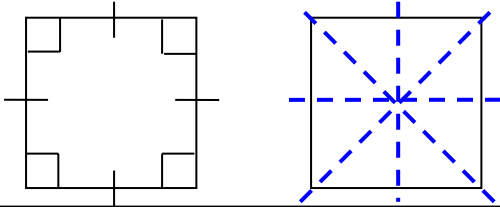
- 3 equal sides
- 3 equal angles - 60°
- 3 lines of symmetry
- Rotational symmetry order 3



**QUADRILATERALS - all angles add up to  $360^\circ$**

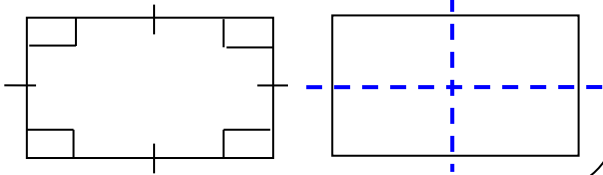
**Square**

- 4 equal sides
- 4 equal angles -  $90^\circ$
- 4 lines of symmetry
- Rotational symmetry order 4



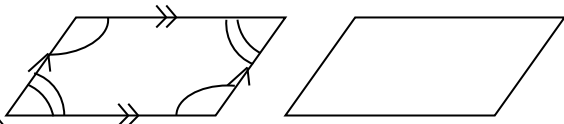
**Rectangle**

- Opposite sides equal
- 4 equal angles -  $90^\circ$
- 2 lines of symmetry
- Rotational symmetry order 2



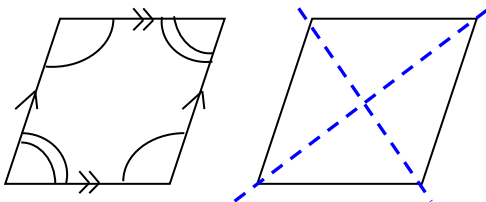
**Parallelogram**

- Opposite sides parallel
- Opposite angles equal
- NO lines of symmetry
- Rotational symmetry order 2



**Rhombus (like a diamond)**

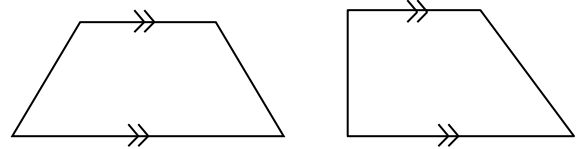
- Opposite sides parallel
- Opposite angles equal
- 2 lines of symmetry
- Rotational symmetry order 2



**4/23 - Properties of quadrilaterals & Triangles (continued)**

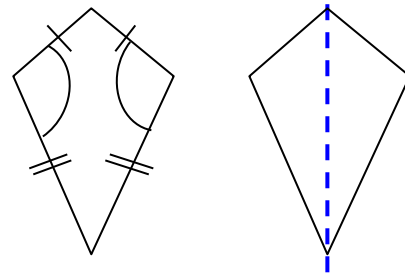
**Trapezium**

- ONE pair opposite sides parallel

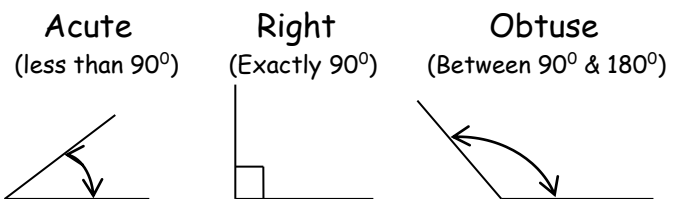


**Kite**

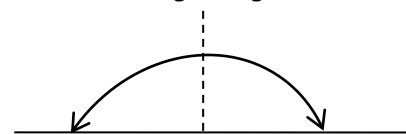
- One pair of opposite angles equal
- 2 pairs of adjacent sides equal
- ONE line of symmetry
- No rotational symmetry



**4/24 Types of angles**

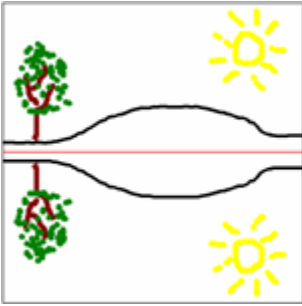


**Straight line**  
( $180^\circ$  or two right angles)

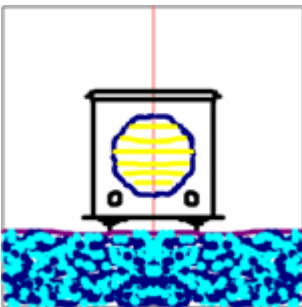


4/25 Identify lines of symmetry

- Horizontal line of symmetry



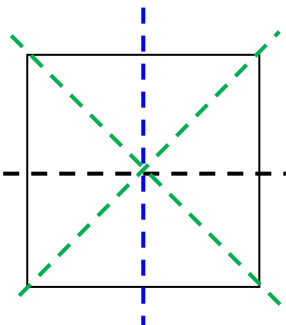
- Vertical line of symmetry



- Oblique line of symmetry

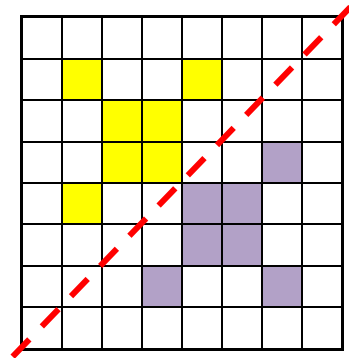
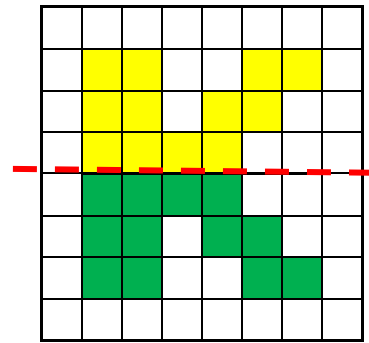
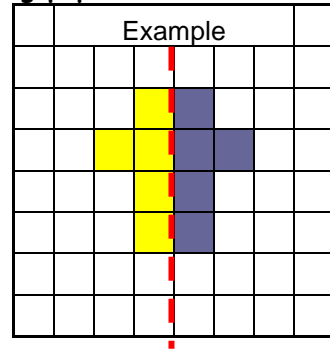


- Horizontal, Vertical & Oblique lines of symmetry



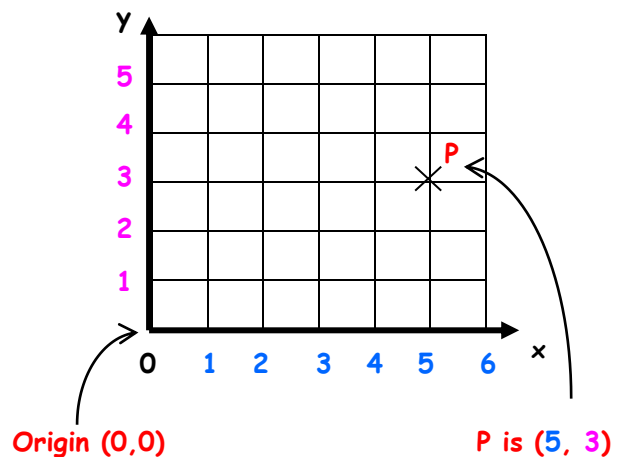
4/26 Complete a symmetrical figure

- Tracing paper is brilliant for this



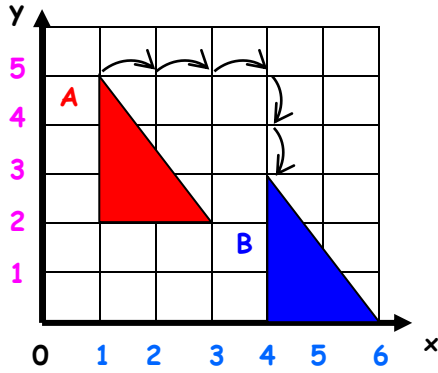
4/27 Describe position of points

- The horizontal axis is the x-axis
- The vertical axis is called the y-axis
- The origin is where the axes meet
- A point is described by two numbers  
The 1<sup>st</sup> number is off the x-axis  
The 2<sup>nd</sup> number is off the y-axis





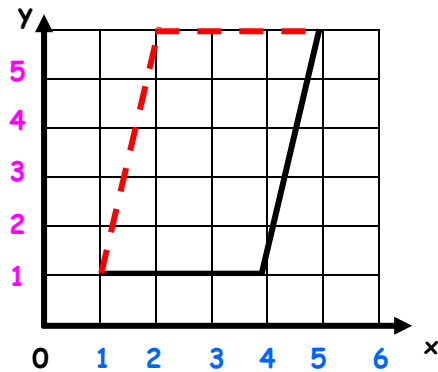
**4/27 Describe movement of shapes**



Shape A has been moved 3 squares right and 2 down. This movement is called **TRANSLATION**

**4/28 Complete a 2D shape**

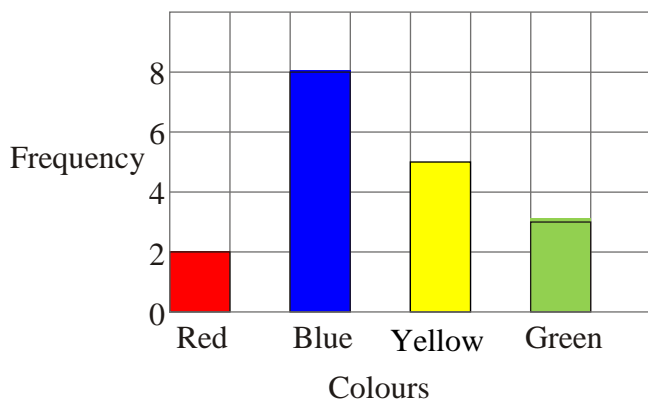
Example: Draw on lines to complete parallelogram



**4/29 Present discrete & continuous data**

**Discrete data** is counted  
e.g. cars, students, animals

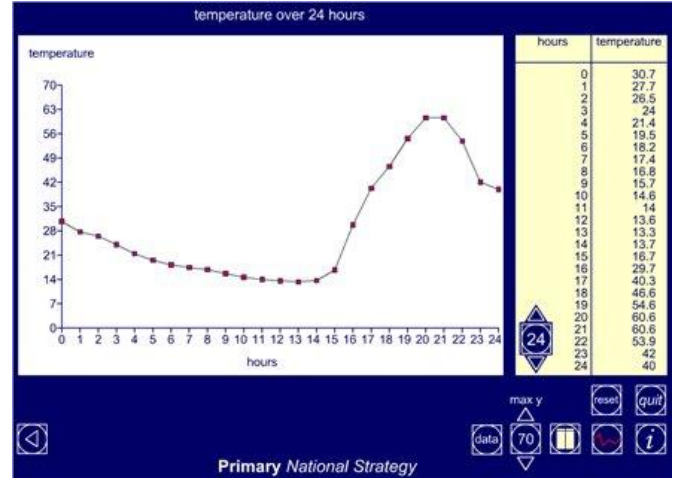
Graph to show favourite colours in Class 4



**4/29 Present discrete & continuous data**

**Continuous data** is measured  
e.g. heights, times, temperature

Graph to show a patient's temperature over 24h

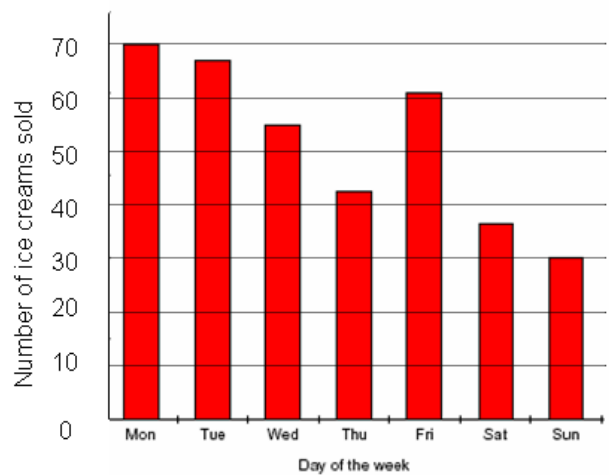


**4/30 Compare data in graphs**

'Sum' or 'total' means 'add up'

'Difference' or 'how many more' means 'subtract'

Bar chart to show Number of Ice Creams sold in a week



(i) What is the total number of ice creams sold over the weekend?

Answer:  $37 + 30 = 67$

(ii) How many more were sold on Friday than Saturday?

Answer:  $61 - 37 = 24$

Pictogram to show the number of pizzas eaten by four friends in the past month:

Key:  = 4 pizzas

Alan 

Bob 

Chris 

Dave 

- (i) What is the sum of the number of pizzas eaten in the month

Answer:  $6 + 9 + 19 + 12 = 46$

- (ii) Find the difference in the number eaten by Chris and Bob

Answer:  $19 - 9 = 10$