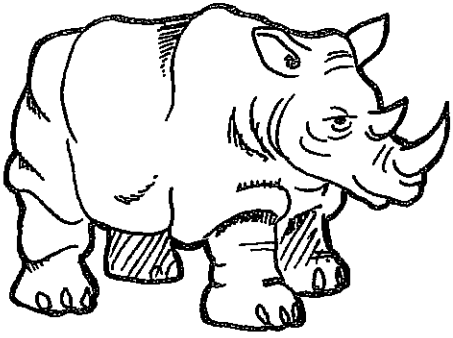


Prep Dictionary of Mathematical Terms

Coins



Mass



heavy



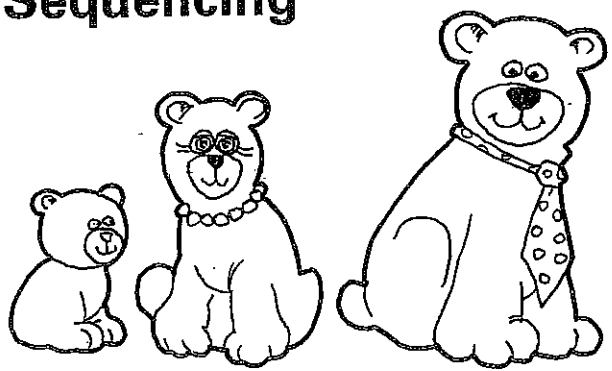
light

Numbers

0	zero		6	six	6th
1	one	1st	7	seven	7th
2	two	2nd	8	eight	8th
3	three	3rd	9	nine	9th
4	four	4th	10	ten	10th
5	five	5th			

x

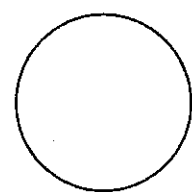
Sequencing



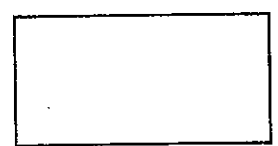
small bigger

biggest

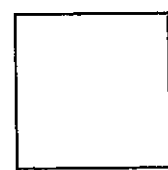
Shapes



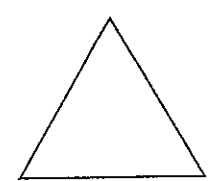
circle



rectangle



square



triangle

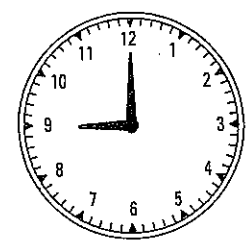
Temperature

hot

cold



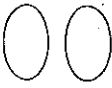

Time



9 o'clock

Year 1 Dictionary of Terms

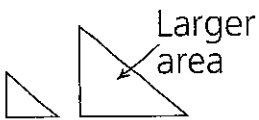
Addition (symbol: +)

Two eggs  and one  egg make 3 eggs.

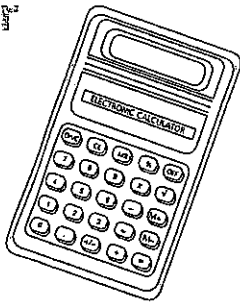
$$2 + 1 = 3$$

Area

The amount of space covered by an object.



Calculator



Calendar

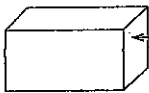
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

Capacity

The amount it can hold.

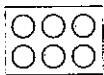


The jug has a larger capacity.

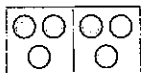


This box can hold more.

Division ÷

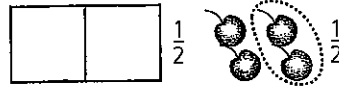


Share 6 counters between 2



Fractions

A part of a whole.

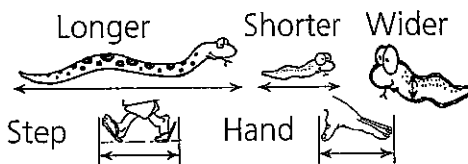


Graphs

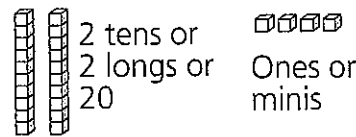
Favourite animals

Dogs Cats Mice

Length



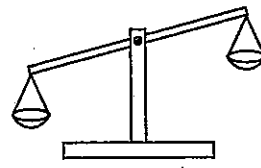
MAB Blocks



Mass

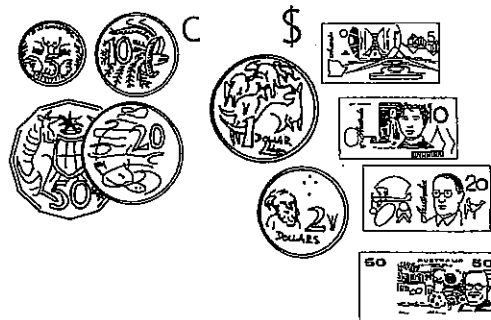


Hefting.
Which is heavier?

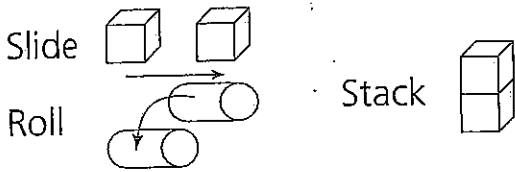


An equal arm balance

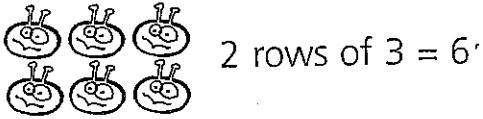
Money



Movement of objects



Multiplication



Numerals



Odd and even numbers

Odd 1, 3, 5, 7, ...

Even 2, 4, 6, 8, ...

Ordinal numbers

Tell the order of things

1st 3rd 8th

Tens

10, 20, 30, 40, ...

Patterns

Counting by twos — 2, 4, 6, 8...

Counting by fives — 5, 10, 15, 20, ...

Position

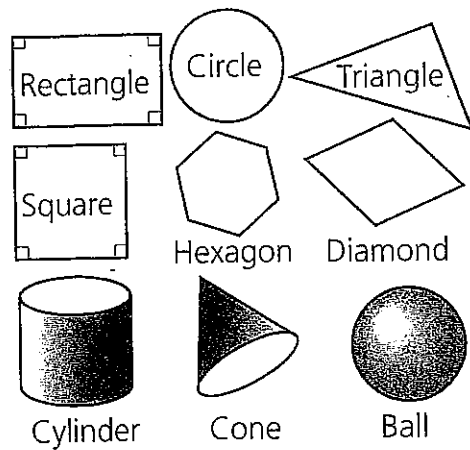
Where an object or person is placed:
In front of, behind, next to, left, right, up,
down.

Seasons

Spring	—	September, October, November
Summer	—	December, January, February
Autumn	—	March, April, May
Winter	—	June, July, August

Months

Shapes



Subtraction

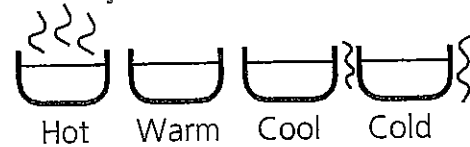
Four birds
One flew away.
Three were left.



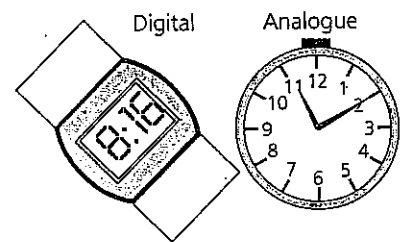
Symmetrical patterns



Temperature



Time

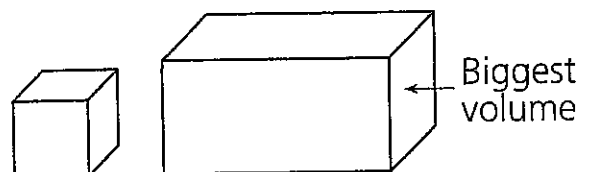


Time line



Volume

The space it takes up.



Year 2 Dictionary of Terms

Addition (symbol: +)

The act of adding two or more numbers together. Examples:

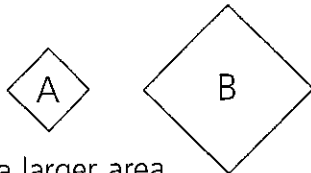
$$* + *** + **$$

$$\begin{array}{r} 14 \\ + 3 \\ \hline 17 \end{array}$$

$$1 + 3 + 2 = 6$$

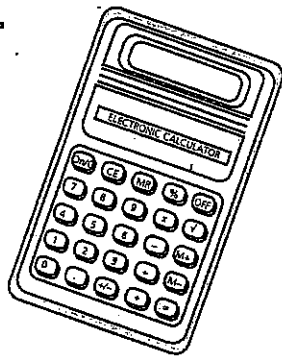
Area

The amount of space covered by an object.



B has a larger area.

Calculator

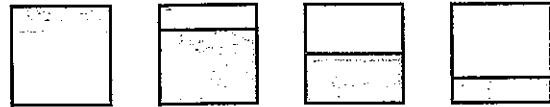


Calendar

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Capacity

The amount a container can hold.



Full

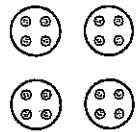
$\frac{3}{4}$ full

$\frac{1}{2}$ full

$\frac{1}{4}$ full

Division \div

16 shared between 4 equals 4.



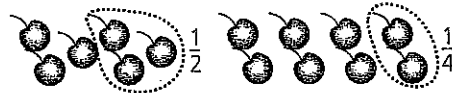
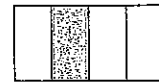
Fractions

A part of a whole.

Halves



Quarters



Graphs

Donuts eaten

Picture graphs

May $\odot\odot\odot\odot$

Ruth $\odot\odot\odot\odot\odot$

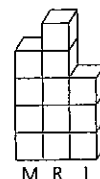
Ian $\odot\odot\odot$

\odot stands for one donut

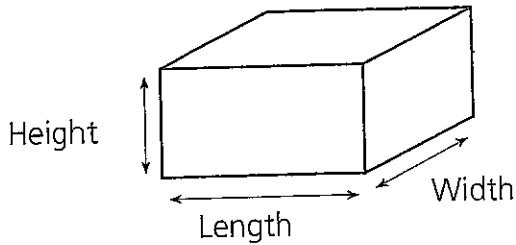
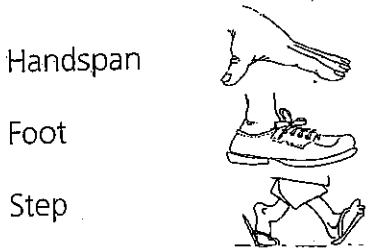
Grids



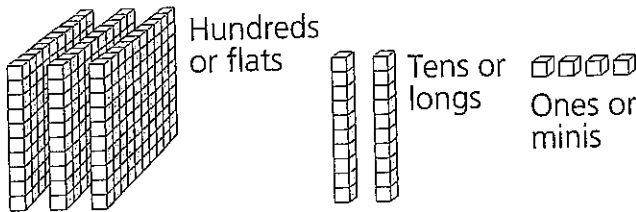
Block graphs



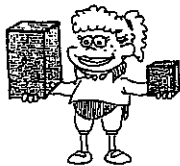
Length



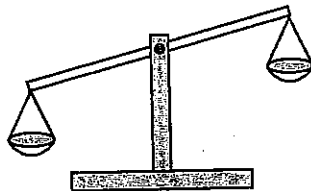
MAB Blocks



Mass

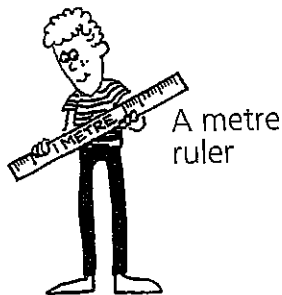


Hefting to see which is heavier

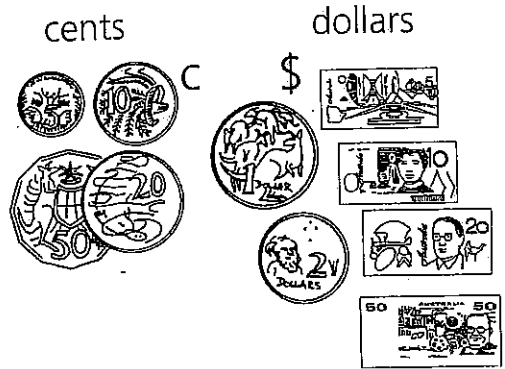


An equal arm balance

Metre



Money

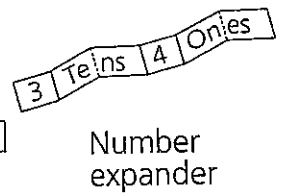
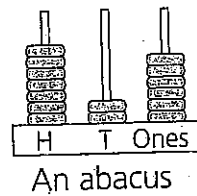


Multiplication x

2 groups of 3 = 6
 $2 \times 3 = 6$



Numbers



Number sentences

$$14 + 6 = 20$$

$$12 - 7 = 5$$

Numbers in words

36 — Thirty six

Tens	Ones
1	4
+	6
2	0

Word problems

5 girls played ball. Two more joined them.

How many are playing now?

$$5 + 2 = 7$$

$$\begin{array}{r} 5 \\ + 2 \\ \hline 7 \end{array}$$

Operations

+ Addition

x Multiplication

- Subtraction

÷ Division

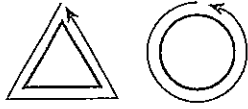
Patterns

Counting by twos — 2, 4, 6, 8...

Counting backwards by 10 — 50, 40, 30, 20, 10, 0

Perimeter

The distance around an object.



Place Value

$$634 = 600 + 30 + 4$$

$$34 = 30 + 4$$

Position

Where an object or person is placed:
in front, behind, next to, left, right.

Rounding off (to the closest ten)

$$42 \rightarrow 40$$

$$35 \rightarrow 40$$

$$63 \rightarrow 60$$

$$67 \rightarrow 70$$

Seasons Months

Spring — September, October, November

Summer — December, January, February

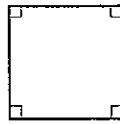
Autumn — March, April, May

Winter — June, July, August

Shapes

The outline of an object.

Square



Squares have 4 straight sides which are the same length.

Rectangle



4-sided shape, two pairs of equal and parallel sides.

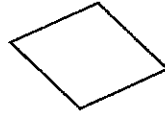
Triangle



Triangles are 3-sided shapes.

Two-dimensional (2D) Shapes

Diamond



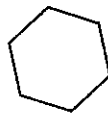
4 equal sides, corners not right angles.

Pentagon



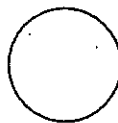
A pentagon is a 5-sided shape.

Hexagon



6 sides and 6 corners

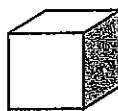
Circle



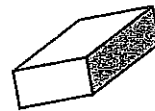
Oval



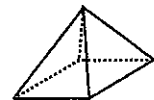
Three-dimensional (3D) Shapes



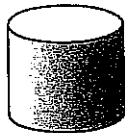
Cube



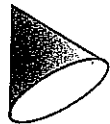
Rectangular prism



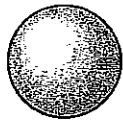
Square pyramid



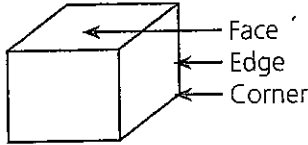
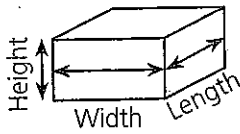
Cylinder



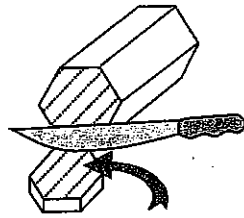
Cone



Sphere



Cross-section



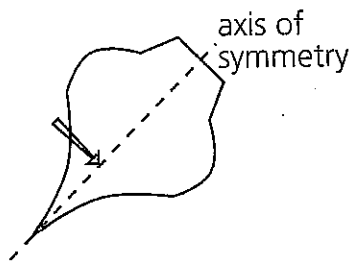
Subtraction

The act of subtracting one number from another.

$$\begin{array}{r}
 \text{*****} - \text{***} \\
 \underline{\quad\quad} \\
 6 - 2 = 4
 \end{array}$$

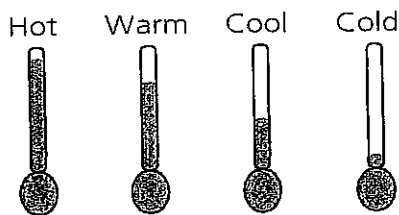
Symmetry

An axis of symmetry divides a shape into two halves.

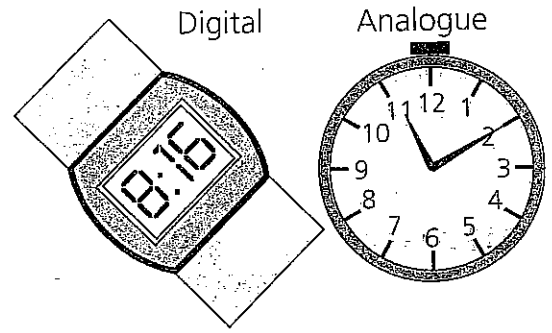


Temperature

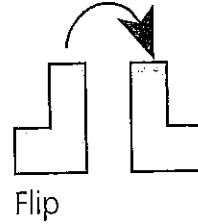
How hot or cold an object, place or person is.



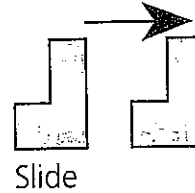
Time



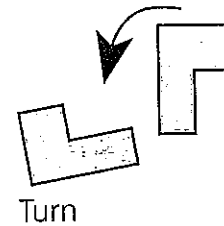
Transformation



Flip



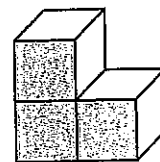
Slide



Turn

Volume

The amount of space taken up by an object.

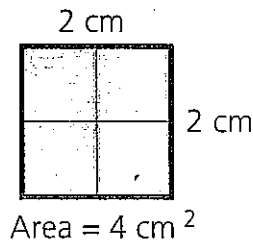


Volume is 3 cubes

Year 3 Dictionary of Terms

Area

The surface covered by a 2D shape.



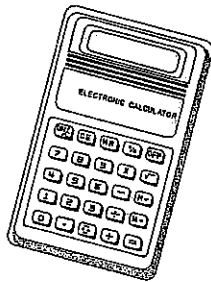
Capacity

The amount a container can hold.



Calculator

A machine used to calculate answers.



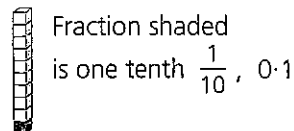
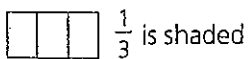
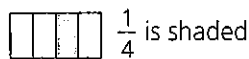
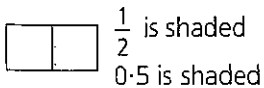
Division ÷

Breaking groups into equal parts.
'Sharing between'
'How many groups of'



Fraction

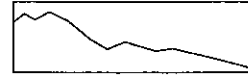
A part of a whole.



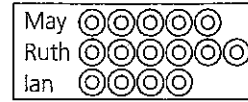
Graph

A diagram used to show data.

Line graph



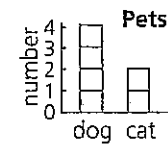
Picture graph



Pie graph



Column graph



Lines

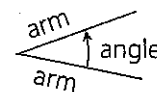
Straight



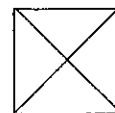
Curved



Angle



Diagonal Line — a line drawn from one corner to another across a polygon.



Parallel Lines — two or more lines that are always the same distance apart.



Line symmetry

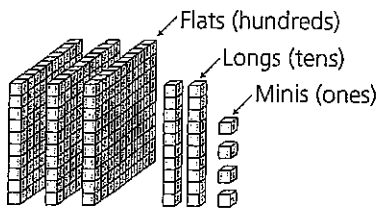
Line of symmetry



A shape has line symmetry if both parts match when folded along a dividing line.

A A has line symmetry **R** R does **not** have line symmetry

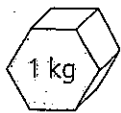
MAB Blocks



324

Mass

The mass does not change. The weight of an object changes according to gravity. On the moon your weight will be $\frac{1}{6}$ of your weight on earth.



1 kilogram



an egg less than 1 kilogram
grams



kilograms

greater than 1 kilogram

Measurements

Standard units include:

length m = metre cm = centimetre
mass g = gram kg = kilogram
capacity L = litre mL = millilitre

Measuring instruments

Length

— metre ruler
— 30 cm ruler
— trundle wheel



Mass

— balance scales



Time

— calendar
— clock
— digital watch



Temperature

— thermometer



Money

\$ = dollar

c = cent



Multiplication

'groups of'

'rows of'

Numbers

Counting numbers 1, 2, 3, 4, ...

Counting patterns 3, 5, 4, 6, ...

Digits 345 — 3 digits
 6 789 — 4 digits

Doubling 2 vases of 8 flowers
 8 + 8 = 16 flowers

Estimation A sensible but rough calculation.
 It isn't a guess.

Even and Odd numbers

Even 2, 4, 6, 8, ...

Odd 1, 3, 5, 7, ...

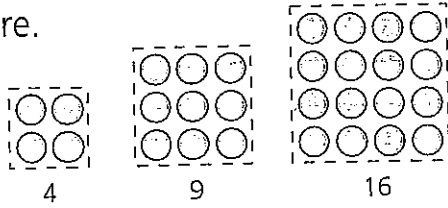
Numbers in Words

6 219

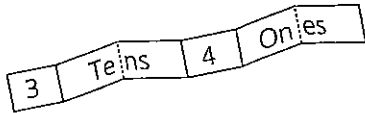
Six thousand two hundred and nineteen.

Square numbers

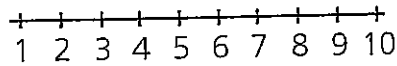
The numbers that can be shown by a square.



Number expander



Number line



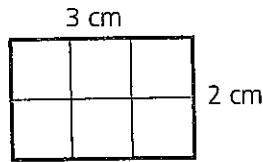
Operations

+ - × ÷

Perimeter

Perimeter is the distance around the outside of a shape.

$$3 \text{ cm} + 2 \text{ cm} + 3 \text{ cm} + 2 \text{ cm} = 10 \text{ cm.}$$



Place value

6 324.9 =
6 thousands
3 hundreds
2 tens
4 ones
9 tenths

Rounding off to ten

Digits below 5 are rounded off downwards.

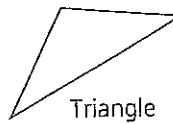
5 and above are rounded off upwards.

Shapes

Polygon — a figure made up of three or more sides, e.g. triangle, square, hexagon, octagon, etc.

Quadrilateral — a four-sided shape, e.g. square, rectangle.

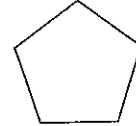
Two-dimensional (2D) shapes



Triangle



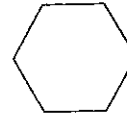
Square



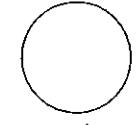
Pentagon



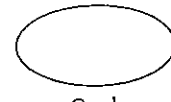
Rectangle



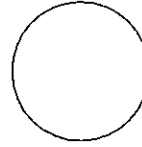
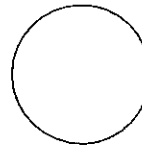
Hexagon



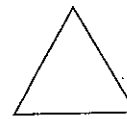
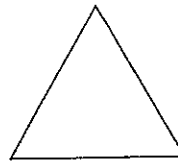
Circle



Oval

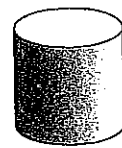


circles that are congruent



triangles that are not congruent

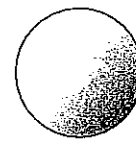
Three-dimensional (3D) shapes



Cylinder

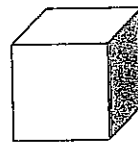


Cone

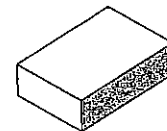


Sphere

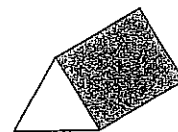
Prisms



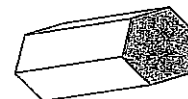
Cube



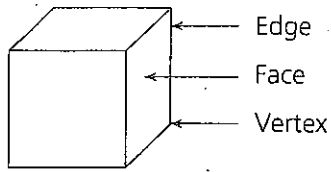
Rectangular Prism



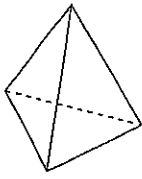
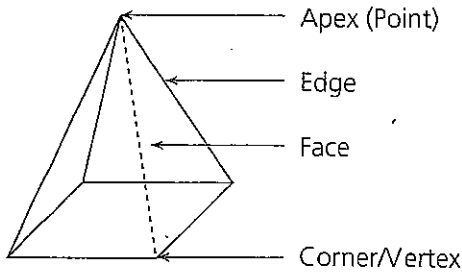
Triangular Prism



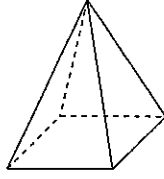
Hexagonal Prism



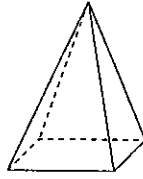
Pyramids



Triangular Pyramid

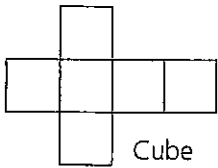


Square Pyramid

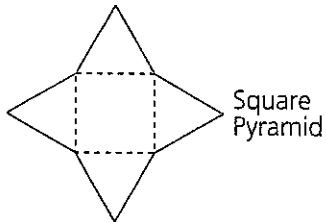


Rectangular Pyramid

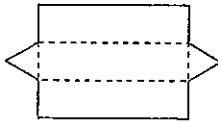
Nets and views of Prisms and Pyramids



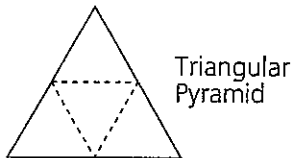
Cube



Square Pyramid

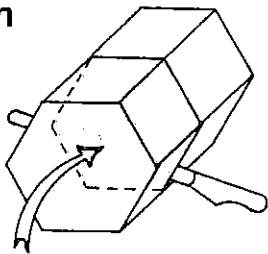


Triangular Prism

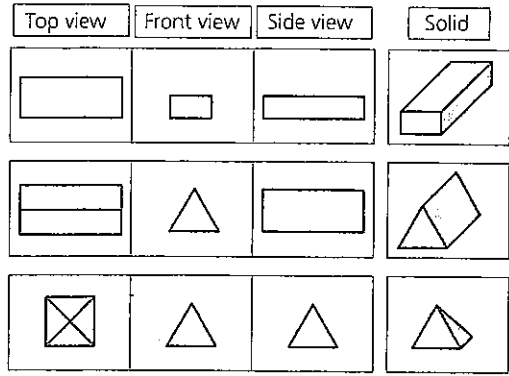


Triangular Pyramid

Cross-section



Views of 3D objects — perspective



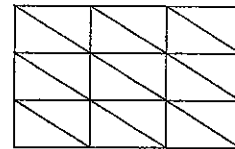
Temperature

A measure of how hot or cold an object or place is.



Tessellation

Pattern formed by repeating shapes which fit together without leaving gaps or overlapping.



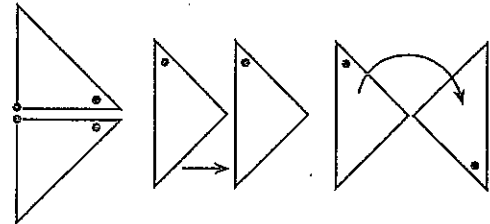
This was used.

We can:

Reflect
Flip

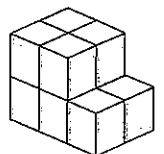
Translate
Slide

Rotate
Turn



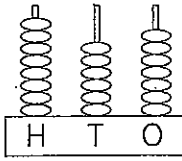
Volume

The amount of space taken up by an object. A cup has volume, it takes up space. It also has capacity, as it can hold liquid. A brick has volume but it does not have capacity.



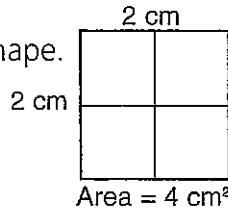
Year 4 Dictionary of Terms

Abacus



Area

The surface covered by a 2D shape.



Capacity

The amount a container can hold.



less than a litre



more than a litre

Calculator

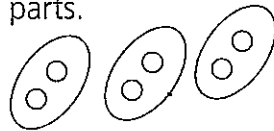


Division ÷

Breaking groups into equal parts.

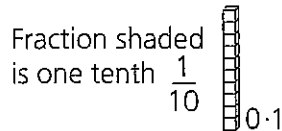
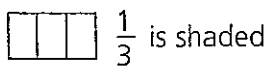
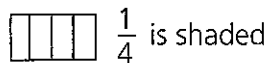
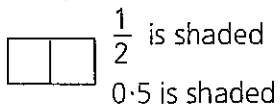
'Share between'

'How many groups of'



Fractions

Any part of a whole or group.

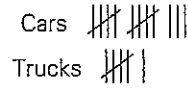


Graphs

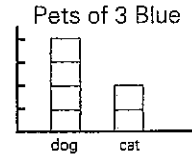
Picture graph



Tally



Column graph



Bar graph

Favourite foods of 20 children in year 4.



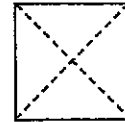
Lines

Straight

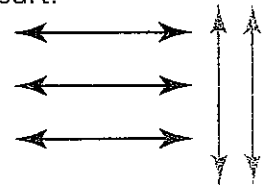
Curved

Angle

Diagonal Line — A line drawn from one corner to another across a polygon.



Parallel Lines — Two or more lines that are always the same distance apart.



Line symmetry

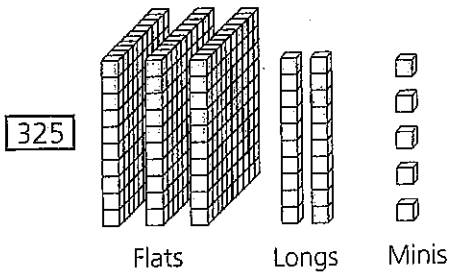
Line of Symmetry

A shape has line symmetry if both its parts match when it is folded along a dividing line.

A has line symmetry

B does not have line symmetry

MAB Blocks



Mass

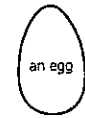
The mass does not change. The weight of an object changes according to gravity. On the moon your weight will be $\frac{1}{6}$ of your weight on Earth.



1 kilogram



kilograms



grams

Less than
1 kilogram

greater than
1 kilogram

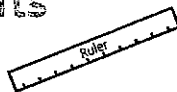
Measurements

Standard units include:

length	m = metre	cm = centimetre
mass	g = gram	kg = kilogram
capacity	L = litre	mL = millilitre

Measuring instruments

Length — metre ruler
— 30 cm ruler
— trundle wheel



Mass — balancing scale



Time — calendar
— clock
— digital watch



Temperature — thermometer



Money

\$ = dollar c = cent



XII

Multiplication X

'groups of' 'rows of'

Numbers

Counting numbers 1, 2, 3, 4, ...

Counting patterns 3^{+2} , 5^{-1} , 4^{+2} , 6, ...

Digits 345 — 3 digits

6 789 — 4 digits

Doubling 2 vases of 8 flowers

$8 + 8 = 16$ flowers

Estimation A sensible but rough calculation.

It isn't a guess.

Even and Odd Numbers

Even 2, 4, 6, 8, ...

Odd 1, 3, 5, 7, ...

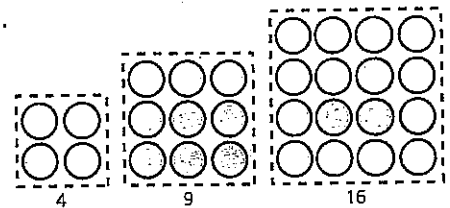
Numbers in Words

6 219

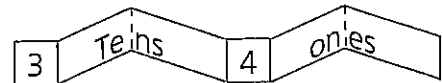
Six thousand two hundred and nineteen.

Square numbers

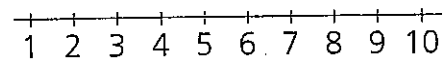
These are numbers that can be shown by a square.



Number Expander



Number line



Number sentence

$$14 + 6 = 20$$

Operations

+ - x ÷

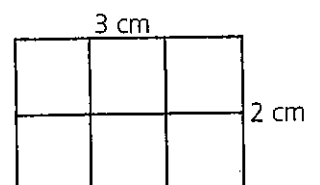
Sequencing Numbers

820, 3 621, 4 621 smallest to largest

4 621, 3 621, 820 largest to smallest

Perimeter

Perimeter is the distance around the outside of a shape.



$$3 \text{ cm} + 2 \text{ cm} + 3 \text{ cm} + 2 \text{ cm} = 10 \text{ cm}$$

Place value

6 324.9 = 6 thousands
 3 hundreds
 2 tens
 4 ones
 9 tenths

Rounding off to ten

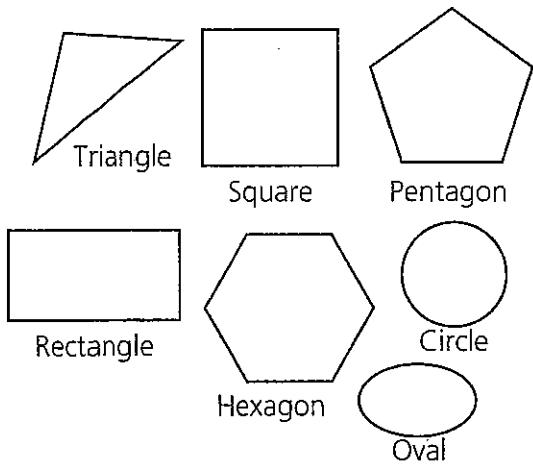
Digits below 5 are all rounded off downwards.
 Digits of 5 and above are rounded off upwards.

Shapes

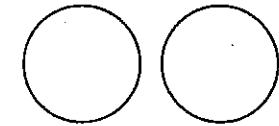
Polygon — This is a figure made up of three or more sides e.g. triangle, square, hexagon, octagon, etc.

Quadrilateral — This is a four sided shape e.g. square, rectangle.

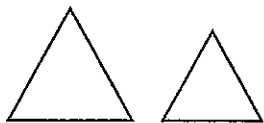
Two-Dimensional (2D) Shapes



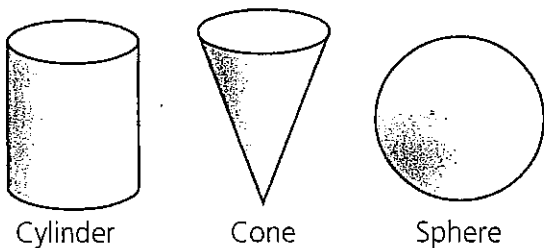
Circles that are congruent



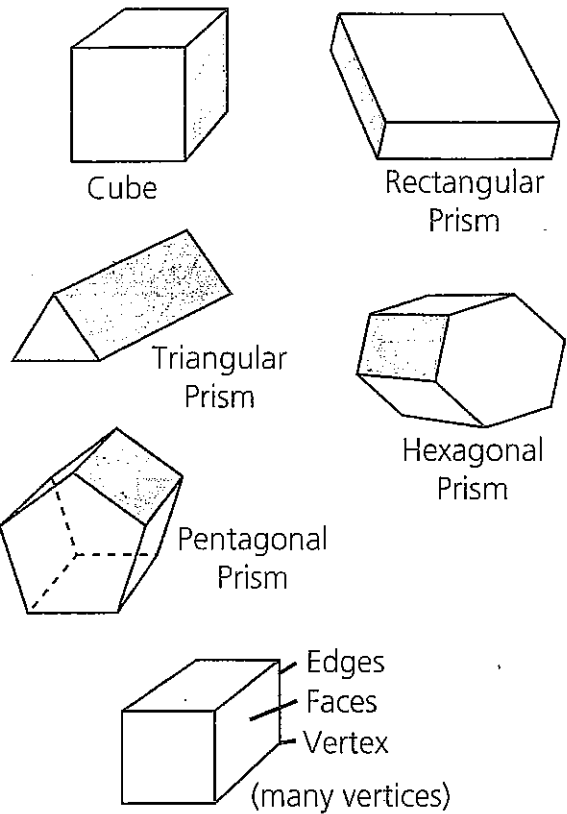
Triangles that are not congruent



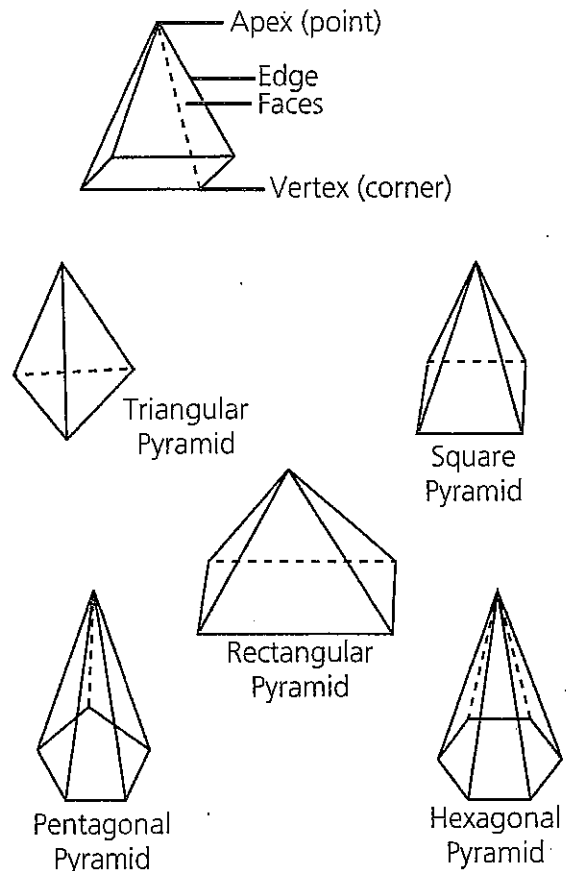
Three-Dimensional (3D) Shapes



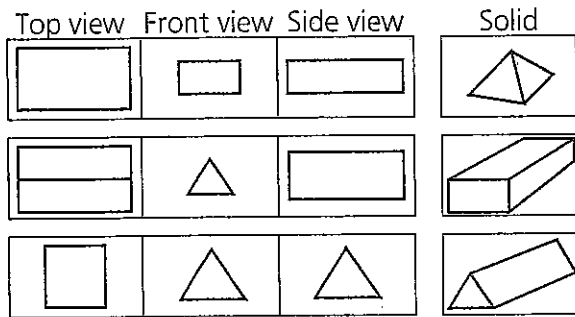
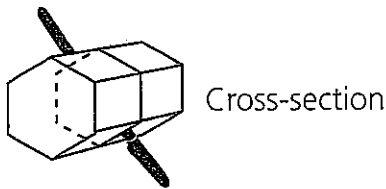
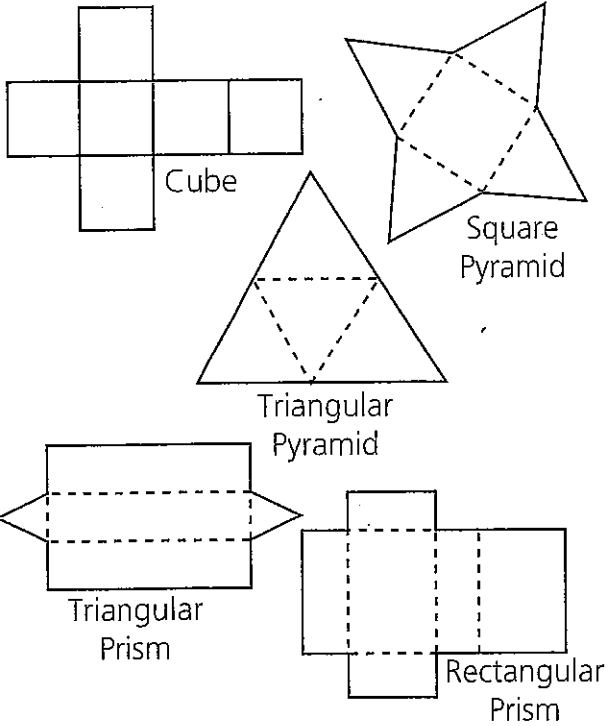
Prisms



Pyramids



Nets of Prisms and Pyramids



Temperature

A measure of how hot or cold an object or place is.

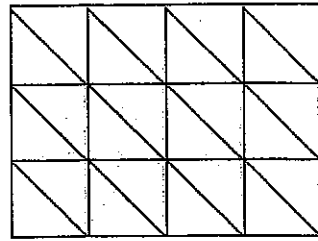
0°C = freezing point of water

100°C = boiling point of water

A thermometer

Tessellation

This is formed by the repetition of one or more shapes which fit together without leaving gaps or overlapping.

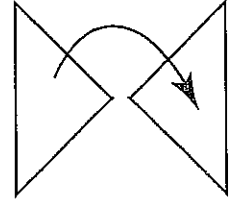
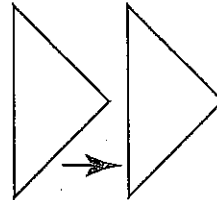
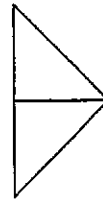


This was used.

We can
Reflect –
flip

Translate –
slide

Rotate –
turn

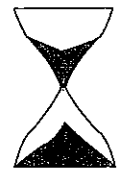


Time

Calendar

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Egg Timer



Analogue Clock



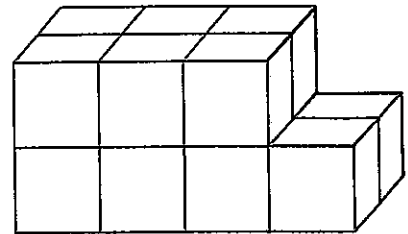
a.m. before midday

Digital Clock



p.m. after midday

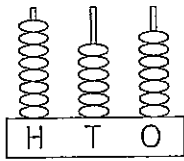
Volume



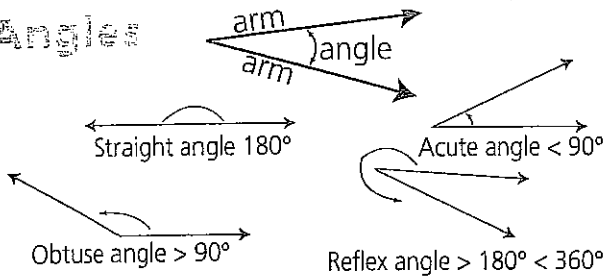
The amount of space taken up by an object. A cup has volume (it takes up space) and it has capacity. It can hold liquid. A brick has volume but it is solid and does not have capacity.

Year 5 Dictionary of Terms

Abacus

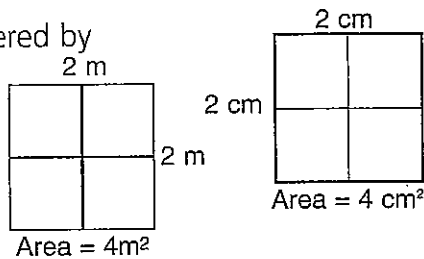


Angle



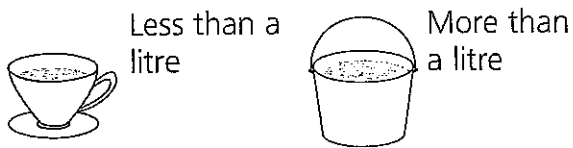
Area

The surface covered by a 2D shape



Capacity

The amount a container can hold.



Calculator



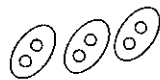
Division ÷

Breaking groups into equal parts.

Sharing between.

How many groups of.

1 cake divided into 4 $1 \div 4 = \frac{1}{4}$



Factors and multiples

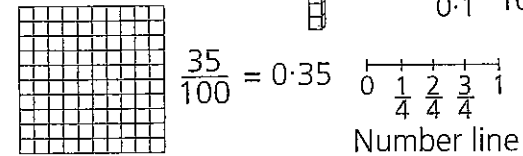
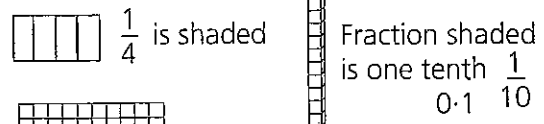
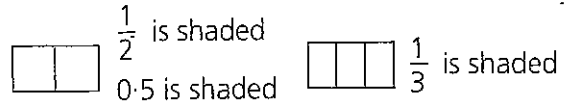
$10 = 1 \times 10$ $10 = 2 \times 5$

Factors of 10 = 1, 10, 2, 5

Multiples of 3 are 3, 6, 9, 12, 15, 18 etc.

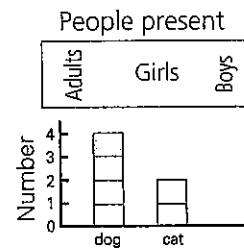
Fractions

Any part of a whole or group.

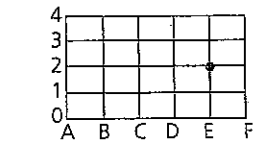


Graphs

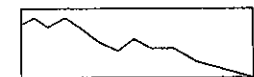
Bar Graph



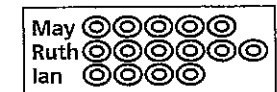
Column Graph



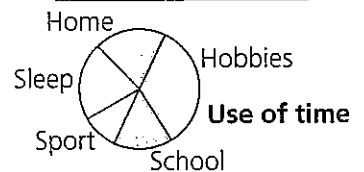
Coordinate Graph (read horizontal then vertical axis)



Line Graph

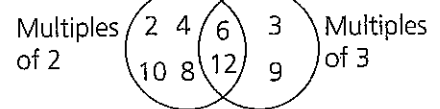


Picture Graph



Pie Graph

Venn diagram

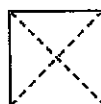


Lines

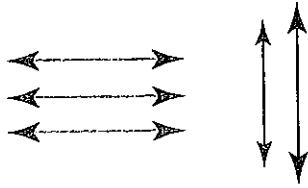
Straight

Curved

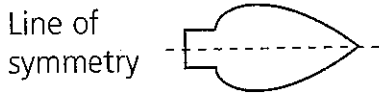
Diagonal Line — a line drawn from one corner to another across a polygon.



Parallel Lines — two or more lines that are always the same distance apart.



Line symmetry



A shape has line symmetry if both parts match when folded along a dividing line.

A has line symmetry.

R does not have line symmetry.

Mass

The mass does not change. The weight of an object changes according to gravity. On the moon your weight will be $\frac{1}{6}$ of your weight on earth.

Net and gross mass

Net - the mass of the contents.

Gross - the mass of the contents and container.

Mean (the average)

The mean of $16 + 20 + 6 = 42$
3 scores so $42 \div 3 = 14$ is the mean.

Measurements

Standards units include

Length m = metre cm = centimetre

Mass g = gram kg = kilogram

Capacity L = litre mL = millilitre

Numbers

Counting Numbers 1, 2, 3, 4, ...

Estimation

A sensible but rough calculation.

It isn't a guess.

Even and Odd Numbers

Even 2, 4, 6, 8, ...

Odd 1, 3, 5, 7, ...

Numbers in Words

396 219

Three hundred and ninety-six thousand, two hundred and nineteen.

Prime and Composite numbers

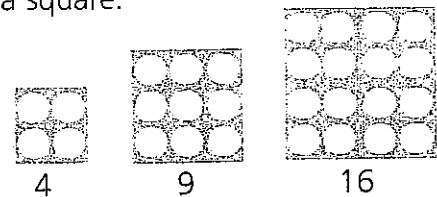
Prime numbers have only two factors - 1 and itself

2, 3, 5, 7, 11, 13

Composite numbers have more than two factors.

Square Numbers

These are numbers that can be shown by a square.



Order of operations

$$\begin{aligned} (6 + 3) \times 4 - 2 \\ = 9 \times 4 - 2 \\ = 36 - 2 \\ = 34 \end{aligned}$$

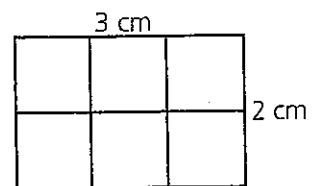
1. Brackets first.

2. \times and \div working from left to right.

3. $+$ and $-$ working from left to right.

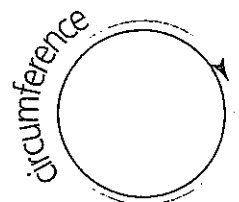
Perimeter

Perimeter is the distance around the outside of a shape.



$$3 \text{ cm} + 2 \text{ cm} + 3 \text{ cm} + 2 \text{ cm} = 10 \text{ cm}$$

Circumference is the distance around a circle.



Place Value

6 324.94
 6 thousands
 3 hundreds
 2 tens
 4 ones
 9 tenths
 4 hundredths

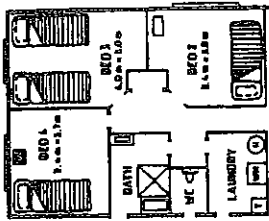
Rounding off to thousands

Look at digit in the hundreds place.

Digits below five round down.

Five and above round up.

Scale on maps



1 cm = 1 m

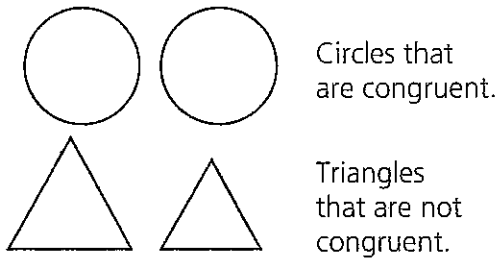
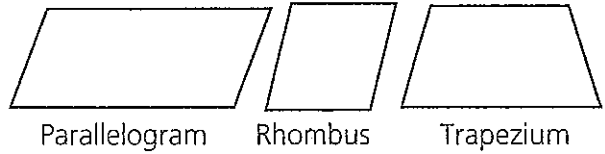
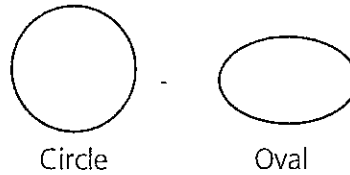
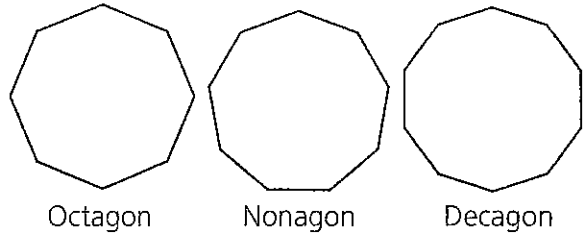
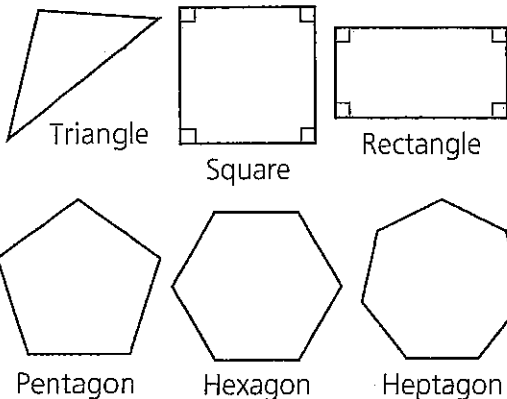
Shape

Polygon - a figure made up of three or more sides e.g. triangle, square, hexagon, octagon, etc.

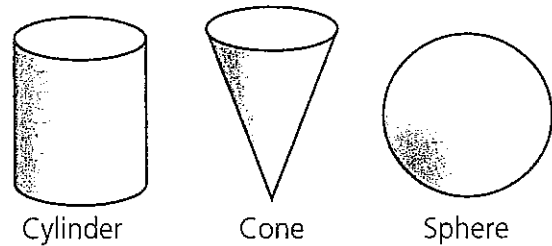
Quadrilateral - a four sided shape e.g. square, rectangle.

Regular shapes - all sides equal length
 all angles same size

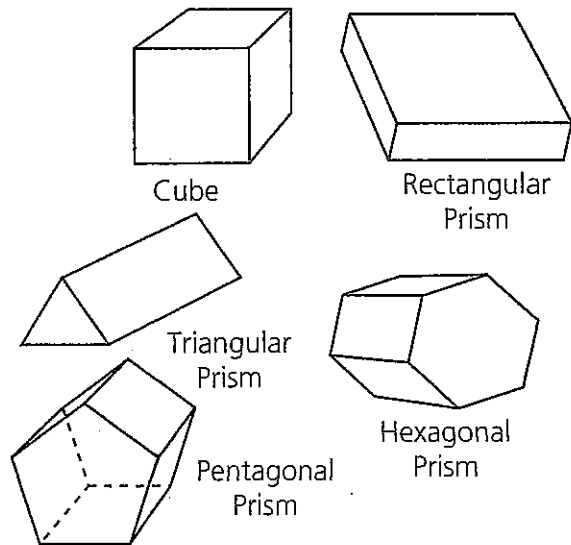
Two-Dimensional (2D) Shapes

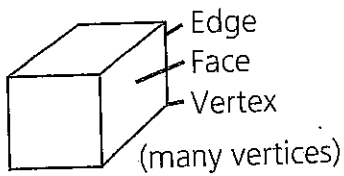


Three-Dimensional (3D) Shapes



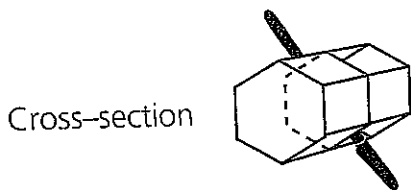
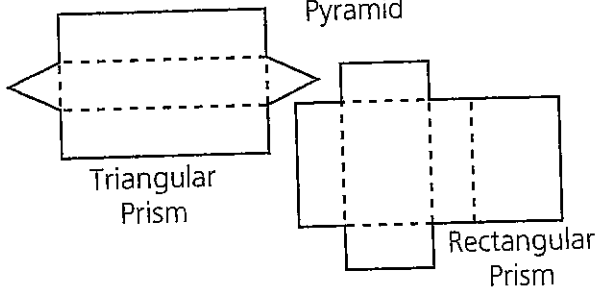
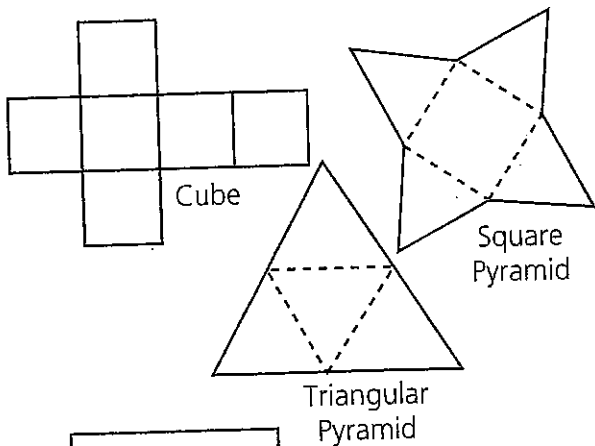
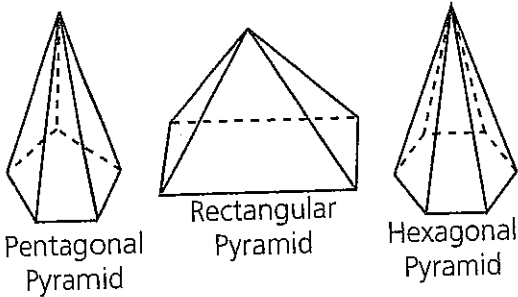
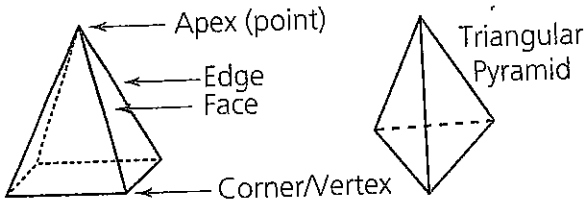
Prisms



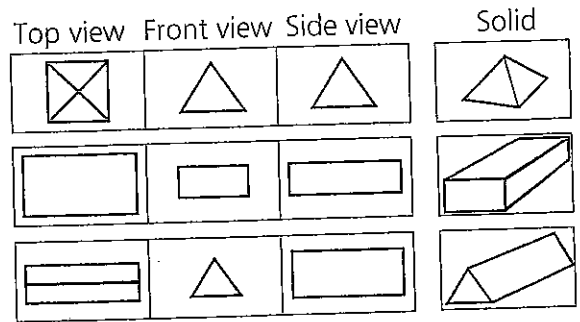


Pyramids

Pyramids are named after the shape of their base. The other faces are triangles.



Views of 3D objects

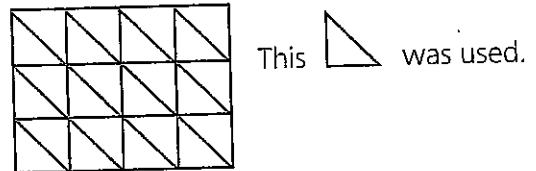


Temperature

A measure of how hot or cold a place is. Measured in degrees°. Celsius (°C)

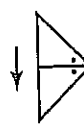
Tessellation

Pattern formed by repeating shapes which fit together without leaving gaps or overlapping.

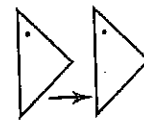


We can

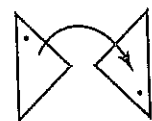
Reflect



Translate



Rotate



Time

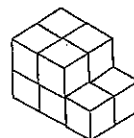
Analogue Clock



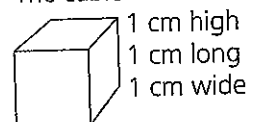
Digital Watch



Volume



The cubic centimetre

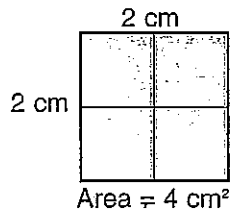


The amount of space taken up by an object. A cup has volume, it takes up space and has capacity, as it can hold liquid. A brick has volume but it does not have capacity.

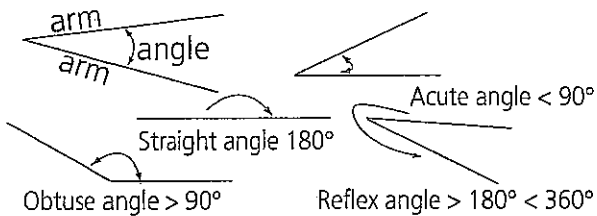
Year 6 Dictionary of Terms

Area

The surface covered by a 2D shape.

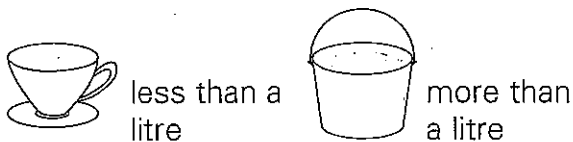


Angles

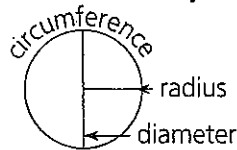


Capacity

The amount a container can hold.



Circumference is the distance around an object.



Division ÷

Breaking groups into equal parts.

'Sharing between'

'How many groups of'

1 cake divided into 4 $1 \div 4 = \frac{1}{4}$



Factors and multiples

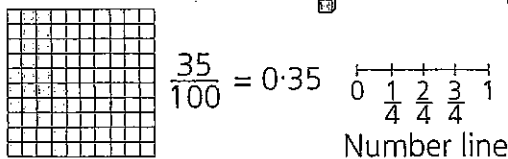
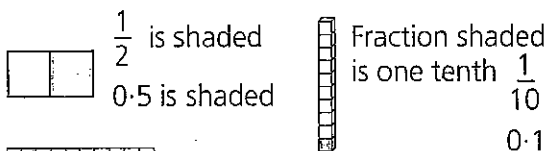
$10 = 1 \times 10$ $10 = 2 \times 5$

Factors of 10 = 1, 10, 2, 5

Multiples of 3 are 3, 6, 9, 12, 15, 18 etc.

Fractions

Any part of a whole or group.



Equivalent Fractions

$\frac{1}{2} = \frac{2}{4}$ Fractions that have the same value.

Improper Fractions

$\frac{16}{5}$ The numerator is greater than the denominator.

Mixed Numeral

$5\frac{1}{3}$ A whole number plus a proper fraction.

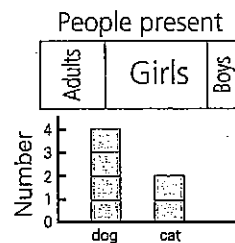
Proper Fraction

$\frac{3}{7}$ A numerator less than the denominator.

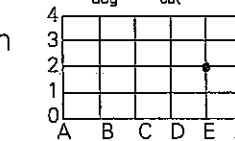
Graphs

A diagram used to show data.

Bar Graph



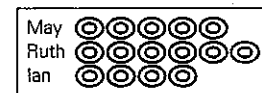
Column Graph



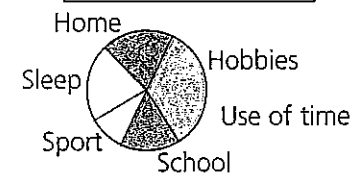
Line Graph



Picture Graph



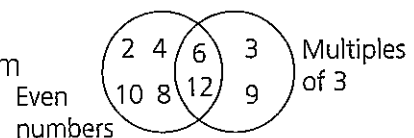
Pie Graph



Tree diagram



Venn diagram

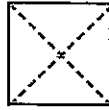


Lines

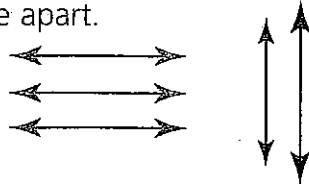
Straight

Curved

Diagonal line — A line drawn from one corner to another across a polygon.

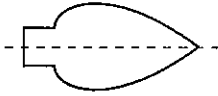


Parallel lines — Two or more lines that are always the same distance apart.



Line symmetry

Line of Symmetry



A shape has line symmetry if both parts match when folded along a dividing line.

has line symmetry

does not have line symmetry

Rotational symmetry

If a shape fits within its outline before one complete turn, it has rotational (turning) symmetry.

Mass

The mass does not change. The weight of an object changes according to gravity. On the moon your weight will be $\frac{1}{6}$ of your weight on earth.

Net and gross mass

Net — the mass of the contents.

Gross — the mass of the contents and container.

Mean (the average)

$$16 + 20 + 6 = 42$$

$$3 \text{ scores so } 42 \div 3 = 14$$

14 is the mean.

Measurements

Standard units include:

Length m = metre cm = centimetre

Mass g = gram kg = kilogram

Capacity L = litre mL = millilitre

Mode

The score that appears most often.

8 6 8 4 3 8: 8 is the mode.

Numbers

Estimation A sensible but rough calculation. It isn't a guess.

Order of operations

$$(6 + 3) \times 4 - 2$$

$$= 9 \times 4 - 2$$

$$= 36 - 2$$

$$= 34$$

1. Brackets first.

2. \times and \div working from left to right.

3. $+$ and $-$ working from left to right.

Place value

6 324.94

6 thousands, 3 hundreds,
2 tens, 4 ones, 9 tenths,
4 hundredths

Rounding off to thousands

Look at the digit in the hundreds place.

Digits below five round down.

Five and above round up.

Prime and composite numbers

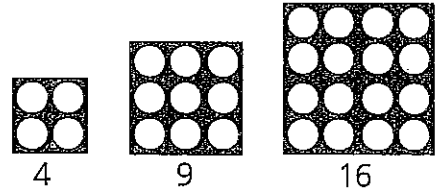
Prime numbers have only two factors — 1 and itself.

2, 3, 5, 7, 11, 13, 17, 19 ...

Composite numbers have more than two factors.

Square numbers

These are numbers that can be shown by a square.



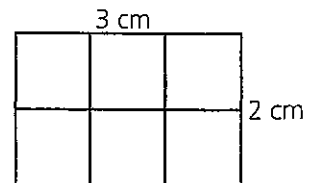
Percentages

% means out of 100

$$37 \text{ out of } 100 = \frac{37}{100} = 37\%$$

Perimeter

Perimeter is the distance around the outside of a shape.



$$3 \text{ cm} + 2 \text{ cm} + 3 \text{ cm} + 2 \text{ cm} = 10 \text{ cm}$$

Ratio

Ratio is a comparison between 2 or more numbers or quantities – 1:5

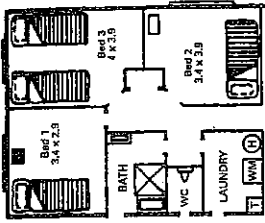


Parallelogram

Rhombus

Trapezium

Scale on maps



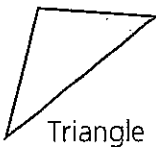
1 cm = 3 m

Shapes

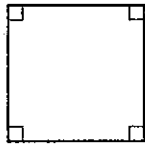
Polygon – a figure made up of three or more sides, e.g. triangle, square, hexagon, octagon, etc.

Quadrilateral – a four-sided shape, e.g. square, rectangle.

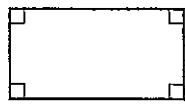
Two-Dimensional (2D) Shapes



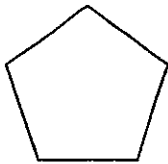
Triangle



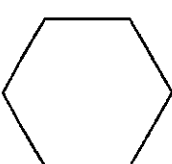
Square



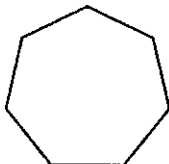
Rectangle



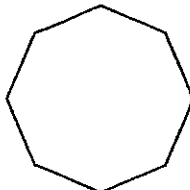
Pentagon



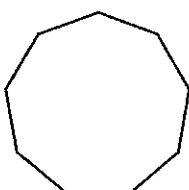
Hexagon



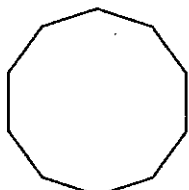
Heptagon



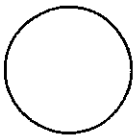
Octagon



Nonagon



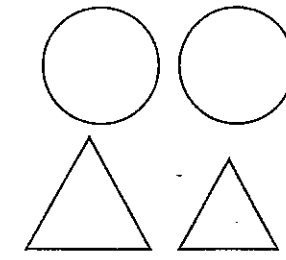
Decagon



Circle



Oval



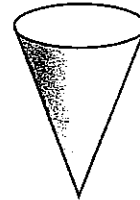
Circles that are congruent.

Triangles that are not congruent.

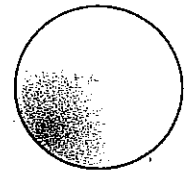
Three-Dimensional (3D) Shapes



Cylinder

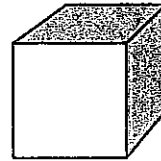


Cone

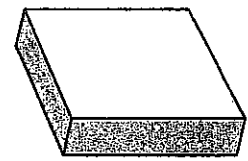


Sphere

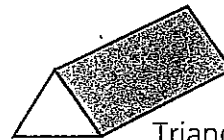
Prisms



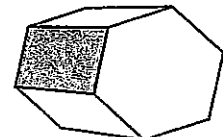
Cube



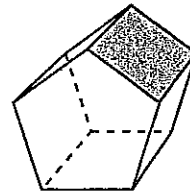
Rectangular Prism



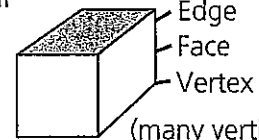
Triangular Prism



Hexagonal Prism

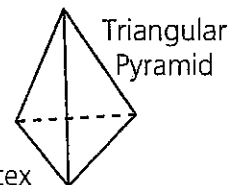
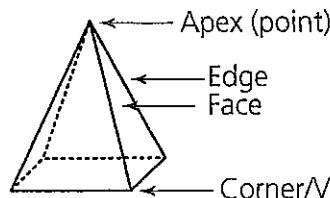


Pentagonal Prism



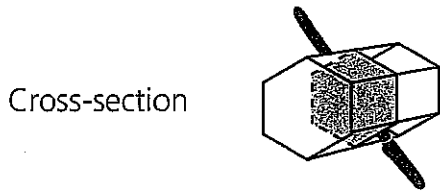
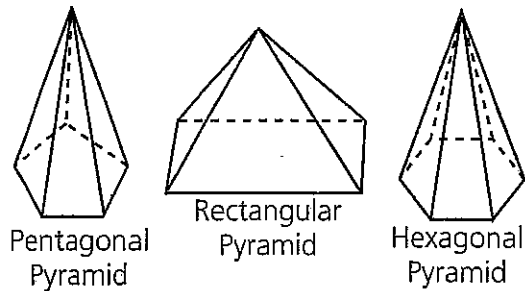
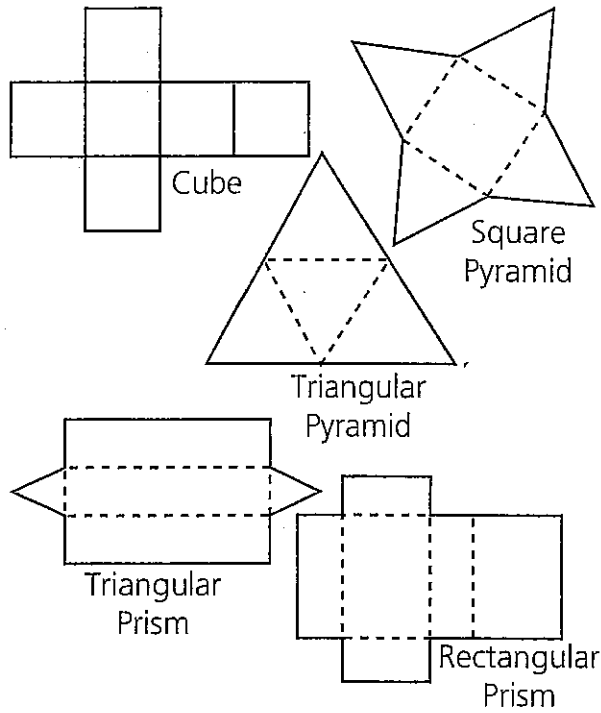
(many vertices)

Pyramids

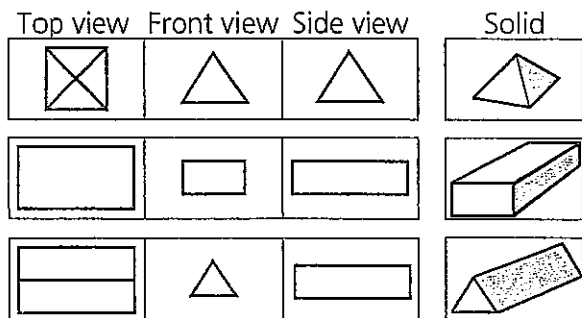


Triangular Pyramid

Nets of Prisms and Pyramids



Views of 3D objects—perspective

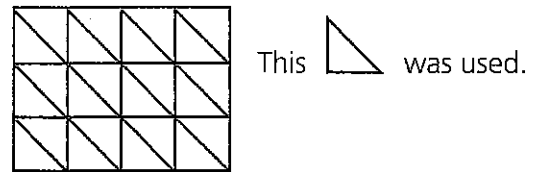


Temperature

A measure of how hot or cold an object or a place is. It is measured in degrees.
° Celsius (°C)

Tessellation

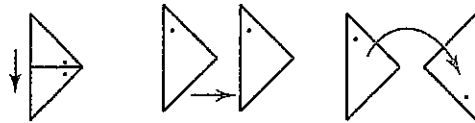
Pattern formed by repeating shapes which fit together without leaving gaps or overlapping.



We can
Reflect

Translate

Rotate



Time

Analogue Clock

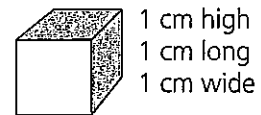
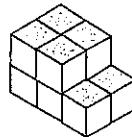


Digital Watch



Volume

The cubic centimetre



The amount of space taken up by an object. A cup has volume. It takes up space and it has capacity, as it can hold liquid. A brick has volume, but it does not have capacity.