two hundred and two over five hundred and sixty-one

NUMBERS AND SHAPES

HOW TO SAY

⋖
I
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/
=
5
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I

000	335
(AmE)	three hundred and thirty
	ty-five / three hundred thirty five

	1,700
	seventeen
	hundred

1,551,862	
one million, five hundr	
ed and fifty-c	
one thousand,	
eight	

account number)

nought (BrE) / zero (AmE)

COMMON FRACTIONS

160	. ۱۷	4 3	∞I - ⟨	. ۱۱	4 1	2 1
three eighths	two thirds	three-quarters / three fourths	an eighth / one eighth	a third / one third	a quarter / one quarter	a half / one half

715 81

five sevenths

 $\frac{202}{561}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{3}{3}$

one and a half

three and two thirds

DECIMAL FRACTIONS

three point one five

HOW TO READ

MATHEMATICAL SYMBOLS

16°C 25%	16°	$x \ge 10$	$x \le 10$	x > 5	<i>x</i> < 5	$x \to \infty$	$x \rightarrow 0$	$x \approx 10$	$x \neq 1$	$\sqrt[n]{x}$	× ×	3	\sqrt{x}	χ ₋ 1	x^{n-1}	$\chi^{\rm n}$	X3	x^2
sixteen degrees centigrade / Celsius twenty-five per cent (Water consumption has risen by 10%.)	R subscript x , R sub x sixteen degrees	x is greater than or equal to 10	x is less than or equal to 10	x is greater than five	x is less than five	x tends to infinity	x tends to nought	x is approximately equal to 10	x is not equal to 1	the nth root of x	the fifth root of x	the cube root of x	the square root of x	x to the power (of) minus n / x to the minus n	x to the power (of) n minus one $/x$ to the n minus one	x to the power (of) n / x to the n	x cubed / x to the third power / x to the power of three	x squared / x to the second power / x to the power of two

CALCULATIONS

Addition

a+b=c

a plus b equals c

Subtraction

a-b=c

Multiplication

 $a \times b = c$

a minus b equals c

a multipled by b equals c

Division

a:b=c

a divided by b equals c

In conversational style with smaller numbers you can say:

3 - 1 = 2

6 + 5 = 11

six and five is/ are eleven

 $3 \times 4 = 12$

12:4=3

one from three is/ leaves two

three fours are twelve three times four is twelve

four into twelve is three

EQUATIONS

$$(a-b)(a+b)=y$$

plus b in brackets equals y a minus b in brackets multiplied by a

a(8-b)=x

equals x a open brackets 8 minus b close brackets

15 + (a - b) = b

15 plus a minus b in brackets all over 8 a equals b

x[(a-b)(a+b)-8]=0

brackets multiplied by a plus b in x open square brackets a minus b in equals nought. brackets minus 8 close square brackets

HOW TO DESCRIBE LINES

 ϖ

AB is a solid line.

CI --D

CD is a broken line.

П

EF is a dotted line.

9

GH is a wavy line.

 ϖ

- O

AB is a horizontal line.

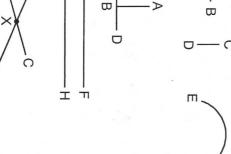


EF is a diagonal line.

CD is a vertical line.



curved line. AB and CD are straight lines, EF is a



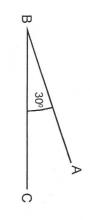
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AB is **perpendicular** to CD.

EF is parallel to GH.

They intersect at X. AB and CD are intersecting lines.

HOW TO DESCRIBE ANGLES



ABC is a thirty degree angle.

ABC is an angle of thirty degrees.

AB is at an angle of thirty degrees to BC.

An angle of 90° is a **right** angle. An angle of 180° is a **straight** angle. An angle of 360° is a **full** angle.

An angle < 90° is an **acute** angle.

An angle > 90° but < 180° is an **obtuse** angle. An angle > 180° is called a **reflex** angle or an **exte**

An angle > 180° is called a **reflex** angle or an **external** angle.

HOW TO DESCRIBE SHAPES NOUN

ADJECTIVE

rectangle

rectangular

square

square

triangle

triangular

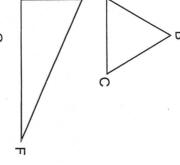
pentagonal

pentagon

circular

semicircle

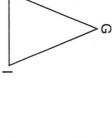
semicircular



D

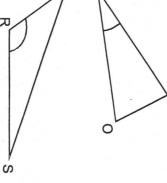
ABC is an equilateral triangle.

DEF is a **right-angled** triangle.



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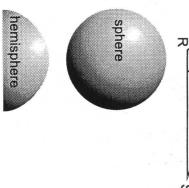
GHI is an isosceles triangle.



U

PRS is an obtuse-angled triangle

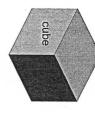
MNO is an acute-angled triangle.



spherical

hemispherical

HOW TO DESCRIBE DIMENSIONS







conical

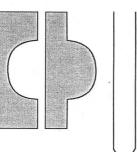
cubic



pyramidal



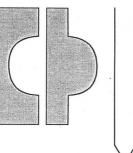
cylindrical



It is convex.

It is pointed at one end.

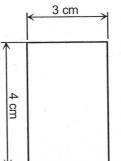
It is rounded at one end.

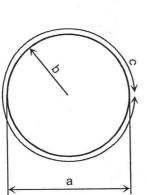


It is concave.

How wide is the block? What's the width of the block?

3 cm wide. 12 sq. cm. The area of the rectangle is The rectangle is 4 cm by 3 cm.





The block has a height of 4 cm, a length of 5 cm and a width of 2 cm.

The height of the block is 4 cm, the length is 5 cm and the width is 2 cm.

The block is 4 cm high, 5 cm long and 2 cm wide. The block is 4 cm by 5 cm by 2 cm.

The volume of the block is 40 cu. cm.

The rectangle is 4 cm long and

A circle has dimensions of: a) diameter,

c) circumference.