



- Area of triangle**  
Area of triangle =  $\frac{1}{2} \times b \times h$   
=  $\frac{1}{2} \times b \times h$   
=  $\frac{1}{2}bh$
- Area of parallelogram**  
Area of parallelogram =  $b \times h$   
=  $b \times h$   
=  $bh$
- Area of trapezium**  
Area of trapezium =  $\frac{(a+b) \times h}{2}$   
=  $\frac{(a+b) \times h}{2}$   
=  $\frac{(a+b)h}{2}$
- Area of circle**  
Area of circle =  $\pi r^2$   
=  $\pi r^2$   
=  $\pi r^2$   
=  $\pi r^2$
- Circumference of circle**  
Area of circle =  $2\pi r$   
=  $2\pi r$   
=  $2\pi r$
- Volume of cuboid**  
Volume =  $l \times w \times h$   
=  $l \times w \times h$   
=  $lwh$
- Surface area of cuboid**  
Front =  $2wl$   
Back =  $2wl$   
Top =  $2lw$   
Bottom =  $2lw$   
Side =  $2lh$   
Side =  $2lh$   
Total Surface Area =  $2(lw + lh + wh)$

Decimal	Percentage	Fraction
0	0%	0
0.1	10%	$\frac{1}{10}$
0.2	20%	$\frac{1}{5}$
0.25	25%	$\frac{1}{4}$
0.3	30%	$\frac{3}{10}$
0.4	40%	$\frac{2}{5}$
0.5	50%	$\frac{1}{2}$
0.6	60%	$\frac{3}{5}$
0.75	75%	$\frac{3}{4}$
1	100%	1

### Percentages

- To increase £12 by 5%  
=  $1.05 \times £12$  (100% + 5% = 105%)  
OR  
=  $£12 + 5\%$  of  $£12$   
= To decrease £50 by 15%  
=  $0.85 \times £50$  (100% - 15% = 85%)  
OR  
=  $£50 - 15\%$  of  $£50$

### Compound Interest

Invest £250 at 4% for 3 years

Amount =  $250 \times 1.04^3$

### Fractions

e.g.  $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

e.g.  $\frac{5}{6} \times \frac{2}{3} = \frac{5 \times 2}{6 \times 3} = \frac{10}{18} = \frac{5}{9}$

e.g.  $\frac{5}{6} \div \frac{2}{3} = \frac{5}{6} \times \frac{3}{2} = \frac{5 \times 3}{6 \times 2} = \frac{15}{12} = 1\frac{1}{4}$

### Angles in Polygons

Sum of interior angles =  $180^\circ \times (n-2)$

Sum of exterior angles =  $360^\circ$



### Metric Measures

1 km = 1000 m  
1 m = 100 cm or 1000 mm  
1 cm = 10 mm  
1 litre = 1000 ml or 1000 cm<sup>3</sup>  
1 tonne = 1000 kg  
1 kg = 1000 g

### Rules of Indices

$2^3 \times 2^4 = 2^{3+4} = 2^7$   
 $7^5 \div 7^2 = 7^{5-2} = 7^3$   
 $(2^3)^2 = 2^{3 \times 2} = 2^6$   
 $2^{-1} = \text{the reciprocal of } 2 \text{ (i.e. } \frac{1}{2})$

- Multiples of 12 are: 12, 24, 36, 48, ...
- Factors of 12 are: 1, 2, 3, 4, 6, 12
- Prime numbers are: 2, 3, 5, 7, 11, 13, ...
- Square numbers are: 1, 4, 9, 16, 25, ...
- Triangle numbers are: 1, 3, 6, 10, ...
- Cube numbers are: 1, 8, 27, 64, ...

Calculate fraction of quantity

To find  $\frac{2}{3}$  of a quantity =  $\frac{2}{3} \times 4 = \frac{8}{3}$

e.g.  $\frac{2}{3}$  of £30 =  $\frac{2}{3} \times 30 = 2 \times 10 = £20$

### Equations

- Multiply out brackets first
- If there are letters on both sides get rid of the smaller first
- Do the same to both sides

e.g. To solve  $5(x-3) = 3x+7$  (expand brackets)  
 $5x-15 = 3x+7$  (x from both sides)  
 $2x-15 = 7$  (x on both sides)  
 $2x = 22$  (+15 to both sides)  
 $x = 11$

### Inequalities

$3 < 4 < 5$

### Standard Form

$2.34 \times 10^4 = 23,400$   
 $1.7 \times 10^{-3} = 0.0017$

### Brackets

Other things  $\sqrt{\quad}$

Divide  
Multiply  
Add  
Subtract

Power of 2	Calculation	Value
2 <sup>0</sup>	2 <sup>0</sup>	1
2 <sup>1</sup>	2 <sup>1</sup>	2
2 <sup>2</sup>	2 <sup>2</sup>	4
2 <sup>3</sup>	2 <sup>3</sup>	8
2 <sup>4</sup>	2 <sup>4</sup>	16
2 <sup>5</sup>	2 <sup>5</sup>	32

### Ratio

e.g. Share £240 between A and B in ratio of 3:5

A : B  
3 : 5 = 8 shares  
One share =  $\frac{£240}{8} = £30$   
A = 3 shares =  $3 \times £30 = £90$   
B = 5 shares =  $5 \times £30 = £150$

### Simplifying expressions

$3x + 4y - 7 = 2y + 3x + 6y - 7$   
 $5p^2 - 2p + p^2 = 6p^2 - 2p$

### Expanding brackets

Multiply everything inside the bracket by what is outside. Then collect like terms together.

$3(x+2) + 2(x-5)$   
 $= 3x + 6 + 2x - 10$   
 $= 5x - 4$

Watch for the negative sign in front of the bracket. It changes the sign inside the bracket.

$3(x-2) - 2(x+5)$   
 $= 3x - 6 - 2x - 10$   
 $= x - 16$

### Factorise

$3x + 6 = 3(x+2)$   
 $6x^2 - 8x = 2x(3x-4)$

### Expanding Double brackets

$(x+3)(x+4) = x^2 + 7x + 12$

Method:

x	x	+3
<hr/>		
x	x <sup>2</sup>	3x
+4	4x	12

### Sequences

If the 1<sup>st</sup> difference is constant, it is linear

e.g. 3 7 11 15 19 23 ...  
+4 +4 +4 +4 +4

The term to term rule is +4

n<sup>th</sup> term =  $4n - 1$

The n<sup>th</sup> term can be used to find the term in any position

e.g. 10<sup>th</sup> term means n=10  
10<sup>th</sup> term =  $4 \times 10 - 1 = 39$

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