



**Area of triangle**  
 Area of triangle =  $\frac{1}{2} \times b \times h$   
 $= \frac{1}{2} \times 8 \times 3$   
 $= 12 \text{ cm}^2$

**Area of parallelogram**  
 Area of parallelogram =  $b \times h$   
 $= 8 \times 3$   
 $= 24 \text{ cm}^2$

**Area of trapezium**  
 Area of trapezium =  $\frac{(a+b) \times h}{2}$   
 $= \frac{(8+12) \times 3}{2}$   
 $= 30 \text{ cm}^2$

**Area of circle**  
 Area of circle =  $\pi \times r^2$   
 $= \pi \times 4^2$   
 $= \pi \times 16$   
 $= 50.27 \text{ cm}^2$

**Circumference of circle**  
 Area of circle =  $2 \times \pi \times r$   
 $= 2 \times \pi \times 4$   
 $= 25.13 \text{ cm}$

**Volume of cuboid**  
 Volume =  $l \times w \times h$   
 $= 5 \times 3 \times 2$   
 $= 30 \text{ cm}^3$

**Surface area of cuboid**  
 Front =  $5 \times 3 = 15$   
 Back =  $5 \times 3 = 15$   
 Top =  $5 \times 2 = 10$   
 Bottom =  $5 \times 2 = 10$   
 Side =  $3 \times 2 = 6$   
 Side =  $3 \times 2 = 6$   
 Total Surface Area =  $74 \text{ cm}^2$

| 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%        | $\frac{3}{10}$ |
| 0.3333  | 33.33%     | $\frac{1}{3}$  |
| 0.4     | 40%        | $\frac{2}{5}$  |
| 0.5     | 50%        | $\frac{1}{2}$  |
| 0.6666  | 66.67%     | $\frac{2}{3}$  |
| 0.75    | 75%        | $\frac{3}{4}$  |
| 1       | 100%       | 1              |

**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**

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

**Percentages**

- To increase £12 by 5%  
 $= 1.05 \times £12$  (100% + 5% = 105%)  
 OR  
 $= £12 + 5\% \text{ of } £12$   
 $= 0.05 \times £120$  (100% + 5% = 105%)  
 OR  
 $= £12 \times 1.05$

**Compound Interest**  
 Invest £250 at 4% for 3 years

Amount =  $250 \times 1.04^3$

**Fractions**

e.g.  $\frac{2}{3} \times \frac{4}{5} = \frac{2 \times 4}{3 \times 5} = \frac{8}{15}$   
 $\frac{3}{4} \div \frac{2}{5} = \frac{3}{4} \times \frac{5}{2} = \frac{15}{8}$   
 $\frac{5}{6} \div \frac{1}{3} = \frac{5}{6} \times \frac{3}{1} = \frac{5}{2}$

e.g.  $5 \times \frac{2}{3} = \frac{5 \times 2}{3} = \frac{10}{3}$   
 $\frac{3}{4} \div \frac{2}{5} = \frac{3}{4} \times \frac{5}{2} = \frac{15}{8}$   
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- 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, ...

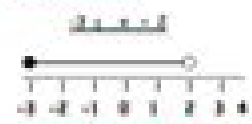
**Calculate fraction of quantity**  
 To find  $\frac{2}{3}$  of a quantity  $\Rightarrow 5 \times \frac{2}{3}$   
 e.g.  $\frac{2}{3}$  of £20 =  $20 \div 3 \times 2 = £13.33$

**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 from both sides)  
 $2x = 22$  (+15 to both sides)  
 $x = 11$

**Inequalities**



**Standard Form**

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

**Brackets**

- Other things  $\times \div$
- 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. Divide £240 between A and B in ratio of 3:5  
 $A = 3$   
 $B = 5$   
 One share =  $£240 \div 8 = £30$   
 $A = 3 \text{ shares} = 3 \times £30 = £90$   
 $B = 5 \text{ shares} = 5 \times £30 = £150$

**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.

$3(x+2) = 3x + 6$   
 $2(x-4) = 2x - 8$   
 $5(x-1) = 5x - 5$

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

$3(x+2) - 2(x-4)$   
 $= 3x + 6 - 2x + 8$   
 $= x + 14$

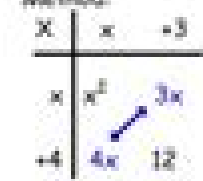
**Factorise**

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

**Expanding Double brackets**

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

Method:



**Sequences**

If the 1<sup>st</sup> difference is constant, it is linear  
 e.g. 3, 7, 11, 15, 19, 23, ...  
 $+4 \quad +4 \quad +4 \quad +4 \quad +4$

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  $n=10$   
 $10^{\text{th}}$  term =  $4 \times 10 - 1 = 39$

# Maths Revision Guide

**Paul Hollin**



## **Maths Revision Guide:**

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