**MAWA FORMULA SHEET FOR MATHEMATICS APPLICATIONS**

**Consumer arithmetic**

For principal *P*, annual rate of interest *r*, and number of years *t*,

Simple Interest: 

Compound Interest:  compounded annually

  compounded n times a year

Price to earnings ratio: *P/E ratio* = $\frac{Market price per share}{Annual earnings per share}$

**Shape and measurement**

Pythagoras’ theorem:  where *c* is the hypotenuse of a right triangle *ABC*, where *a*, *b* are the short sides.

Circle:  where C is the circumference, r is the radius and d is the diameter

  where *A* is the area

Triangle:  where *b* is the base and *h* is the perpendicular height

Parallelogram: 

Prism:  where *V* is the volume and *A* is the area of the base

Pyramid: 

Cylinder:  and  where *S* is the total surface area

Cone:  and 

Sphere:  and 