

Mathematics Applications Unit 1

1. Formulas

Formula -> substitute -> answer

2. Percentages

Inflation

Discount

Commission

Profit and loss

3. Simple interest

$$I = PRT$$

4. Compound interest

$$A = P(1 + \frac{r}{n})^{nt}$$

5. Other finance

Wages:

time = 1 hour and a half = 1.5

double time = 2

Comparing prices

Foreign currency

AUD ~~1.40~~ Foreign

Shares

- Price to earnings ratio

- dividend

Allowances + provisions

Budgeting

- fixed expenditure

- discretionary spending

6. Matrices

- Square matrix - 2x2

- Column - 3x1

- Row 1x4

- Diagonal - square matrix

with all zeros not in diagonal

Folding + Subtracting

- same size matrices

Multiplying matrices by number

- whole matrix by 1 number

Multiplying matrices

- same inside diagonal

Folding matrices

$$\begin{bmatrix} 1 & 2 & 4 \\ 0 & -4 & 5 \end{bmatrix} + \begin{bmatrix} 3 & 5 & -2 \\ 1 & 0 & -2 \end{bmatrix} = \begin{bmatrix} 4 & 7 & 2 \\ 1 & -4 & 3 \end{bmatrix}$$

Subtracting matrices

$$\begin{bmatrix} 3 & 5 & -2 \\ 1 & 0 & -2 \end{bmatrix} - \begin{bmatrix} 1 & 2 & 4 \\ 0 & -4 & 5 \end{bmatrix} = \begin{bmatrix} 2 & 3 & -6 \\ 1 & 4 & -7 \end{bmatrix}$$

Matrices x 1 number

$$5 \times \begin{bmatrix} 2 & 3 \\ 1 & -5 \end{bmatrix} = \begin{bmatrix} 10 & 15 \\ 5 & -25 \end{bmatrix}$$

Multiplying matrices

$$\begin{bmatrix} 2 & 1 \\ 3 & -1 \end{bmatrix} \times \begin{bmatrix} 1 & 2 & 3 \\ 1 & 4 & 0 \end{bmatrix} = \begin{bmatrix} 3 & 8 & 6 \\ 2 & 2 & 9 \end{bmatrix}$$

Equal matrices

$$\begin{bmatrix} a & b & c \\ d & e & f \end{bmatrix} = \begin{bmatrix} 2 & 3 & -5 \\ 1 & 0 & -2 \end{bmatrix}$$

$$\therefore a = 2, b = 3, c = -5$$

$$\therefore d = 1, e = 0, f = -2$$

Pre-multiply

2nd matrix x 1st matrix

Post-multiply

1st matrix x 2nd matrix

Zero matrix

Any matrix which is sum of just 2 zeros.

2x2 zero matrix

$$\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$$

Identity matrix

$$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

Route matrices



$$\begin{matrix} A & B & C & D \\ A & 0 & 1 & 0 & 0 \\ B & 1 & 0 & 1 & 1 \\ C & 0 & 1 & 0 & 2 \\ D & 0 & 1 & 2 & 0 \end{matrix}$$

2 stage route matrix



$$\begin{matrix} A & B & C & D \\ A & 1 & 0 & 1 & 1 \\ B & 0 & 2 & 2 & 2 \\ C & 1 & 2 & 5 & 1 \\ D & 1 & 2 & 1 & 5 \end{matrix}$$

7. Pythagoras

$$c^2 = a^2 + b^2$$

8. Perimeter and area

Perimeter - outside

Area

Circle: πr^2

Sector: $\frac{\theta}{360} \pi r^2$

Triangle: $\frac{1}{2}bh$

Parallelogram: bh

Trapezoid: $\frac{1}{2}(a+b)h$

Prism: lh

Circle: $2\pi r$

Sector: $2\pi r$

Triangle: $3\pi r$

Parallelogram: $4\pi r$

Trapezoid: $5\pi r$

Prism: $6\pi r$

Circle: $7\pi r$

Sector: $8\pi r$

Triangle: $9\pi r$

Parallelogram: $10\pi r$

Trapezoid: $11\pi r$

Prism: $12\pi r$

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Trapezoid: $143\pi r$

Prism: $144\pi r$

Circle: $145\pi r$

Sector: $146\pi r$

Triangle: $147\pi r$

Parallelogram: $148\pi r$

Trapezoid: $149\pi r$

Prism: $150\pi r$

cone, slant height s

$$S = \pi r^2 + \pi r s$$

Sphere

$$S = 4\pi r^2$$

Cylinder

$$S = 2\pi rh + 2\pi r^2$$

Volume

$$Prism, \text{base area, } H$$

$$V = Bh$$

Pyramid

$$V = \frac{1}{3} Bh$$

Cylinder

$$V = \pi r^2 h$$

cone

$$V = \frac{1}{3} \pi r^2 h$$

Sphere

$$V = \frac{4}{3} \pi r^3$$

10. Similarity

length = 1:R₂

Surface area = 1:R₂²

Volume = 1:R₂³

Corresponding lengths

$$AB : DE = 1 : 3$$
</div

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**Raymond A. Barnett, Michael R.
Ziegler, Karl E. Byleen**

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