

Mathematics Applications Unit 1

1. Formulae

Formula $\rightarrow$ substitute $\rightarrow$ answer

2. Percentages

Inflation

Discount

Commission

Profit and loss

3. Simple interest

$$I = PRT$$

4. Compound interest

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

5. Other finance

Wages:

time = 1 time and a half = 1.5

double time = 2

Comparing prices

Foreign Currency

AD $\rightarrow$ Foreign \$

Shares

- Price to earnings etc

- dividend

Allowances + pensions

Budgeting

- fixed expenditure

- discretionary spending

6. Matrices

- Square matrix - 2x2

- Column - 3x1

- Row - 1x4

- diagonal - square matrix

with all rows not in diagonal

Adding + subtracting

- same size matrices

Multiplying matrices by number

- whole matrix by 1 number

Multiplying matrices

- same inside diagonal

Adding matrices

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

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

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

$$5 \times \begin{bmatrix} 2 & 3 \\ 5 & -5 \end{bmatrix}$$

$$= \begin{bmatrix} 10 & 15 \\ 5 & -25 \end{bmatrix}$$

Multiplying matrices

$$\begin{bmatrix} 2 & 1 \\ 3 & -1 \end{bmatrix} \times \begin{bmatrix} 1 & 2 & 3 \\ 4 & 0 \end{bmatrix}$$

$$= \begin{bmatrix} 3 & 8 & 6 \\ 2 & 2 & 9 \end{bmatrix}$$

Equal matrices

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

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

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

Premultiply

2nd matrix x 1st matrix

Postmultiply

1st matrix x 2nd matrix

Zero matrix

Any matrix which is full of just zeros.

2x2 zero matrix

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

Identity matrix

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

Route matrices



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

2 stage route matrix



$$\begin{matrix} & A & B & C & D \\ \begin{matrix} A \\ B \\ C \\ D \end{matrix} & \begin{bmatrix} 1 & 0 & 1 & 1 \\ 0 & 3 & 2 & 2 \\ 1 & 2 & 5 & 1 \\ 1 & 2 & 1 & 5 \end{bmatrix} \end{matrix}$$

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

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

Perimeter

Circle: $2\pi r$

Rectangle: $2\pi r$

9. Surface area and volume

Surface area

Prisms + cylinders

Pyramids + spheres

Area, slant height S

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

Sphere

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

Cylinder

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

Volume

Prism, base area, H

$$V = Ah$$

Pyramid

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

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:K

Surface area - 1:K²

Volume - 1:K³

Area - 1:K

Perimeter - 1:K

Corresponding lengths

$$AB : DE = 1 : 3$$

$$AC : DF = 1 : 3$$

$$BC : EF = 1 : 3$$

Corresponding angles equal

$$\angle BAC = \angle EDF (= 90^\circ)$$

$$\angle ABC = \angle DEF$$

$$\angle BCA = \angle EFD$$

$$\therefore \triangle ABC \sim \triangle DEF$$

Mathematical Models With Applications Unit Lesson Answers

Judd E. Hollander



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