lathematics Applications Route mutrices 1. Formulae Cone, slant height 5 Adding matrius tormula -7 substitute -7answer S=TIr2+TTrS 2. Peruntages Sphere 5=41Tr2 Inflation -4 Discount Cylinder 10 5=211rh+211r2 Subtracting matrices Commission Profit and loss 4 Valume 3. Simple interest 10-4 Prism, base area H 1=PRT V=Ah 4. Compound interest Paramid V=3Ah Matrius X | number 2 stage route matrix Calindur 5. Other finance V=TTr2h Wages: Core V= 3 T1 2h time=1 time and a half=1.5 B Sphire double time= 2 Multiplying matrices 0 B 0 3 2 Comparing prices V= 4 Tr3 toneign Currency 10. Similarity 1:K 2 length 6 forigen \$ rates 7. Pythagoras 1:R Sufacearea volume -Shares c2=a2+b2 Equal matrices - Price to earnings ratio 8 Perimeter and -dividend 15cm Allowanus + pensions Perimeter-outside · a=2 b=3 c=-5 Hrea e=0 f=-2 Budgeting Corresponding lengths - fixed expenditure Premultiply (ircle: Mr2 AB: DE = 1:3 2ndmatrice x 1st matrice Sector: SETT12 AC: OF = - discretionary spending 6. Matrices BC: EF = 1:3 Postmultiply Triungle: 5hh 1st matrice x 2 not matrice Parallelogrum bh Corresponding angles equal - Square motin - 2,2 Trapezium = (a+b)h LBAC = LEDF (=90°) - Column - 3x1 Zero matrice - ROW 1x4 LABC = LDEF Any matrice which is full Perimeter Circle - diagonal - square matrix <BCH = <EFD of just zeros. C=211r Sector 1=360 2TTr : AABL~ ADEF with all zeros not in diagonal 92x2 zero matrice Adding + substracting 9. Surface area 00 - same size matrices 00 and volume Surface area Multiplying matrices by number I dentity matrice - whole mutrice by I number. Prisms + cylinders 0 +Pyromids+Spheres Multiplying matrices 0 - same inside didget