

- 1) 12 students
- 3) 22 nickels
- 5) 50 programs
- 7) 14 quarters
- 9) \$44
- 11) plumber, \$25.50/hr; apprentice, \$21/hr
- 13) 7 quarters

Thirty students bought pennants for the football game. Plain pennants cost \$4 each and fancy ones cost \$8 each. If the total bill was \$168, how many students bought the fancy pennants? number = cost = total Let x=#Fanoy 8 8x 30-x=plain 4 (30-%) 4 8x+4(30-x)=168 8x+150-1x=168 48+120-120=168-120 4x= 48 X:12 [12]

all but 20 of them for \$3 each and made a profit of \$15. How many programs did he buy? cost 3 3(x-20) 1.50 1.5× 3(x-20)-1.5x= 15

5) Hans paid \$1.50 each for programs to the game. He sold

- 1.5x-60+60 = 15+60
- A plumber makes \$4.50 per hour more than his apprentice. During an 8-hour day, their combined earnings total \$372. How much does each make per hour? = total hours 8(45+×) 4.5+ X 8 8× Let x=apprentices 8(4.5+x)+8x=372

