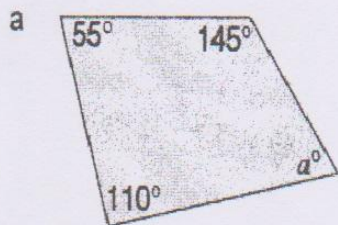


Angle Sum of a Quadrilateral

❖ Find the value of the pronumeral in each of the following.

Part 1



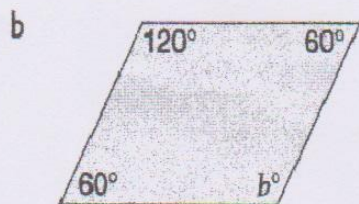
$$1 + 2 + 3 + 4 = 360$$

$$110 + 145 + 55 + a = 360$$

$$310 + a = 360$$

$$a = 360 - 310$$

d $a = 50$



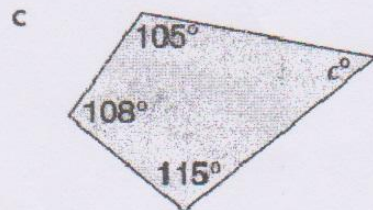
$$1 + 2 + 3 + 4 = 360$$

$$60 + 120 + 60 + b = 360$$

$$240 + b = 360$$

$$b = 360 - 240$$

$b = 120$



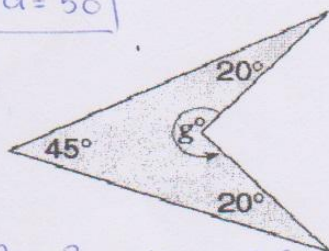
$$1 + 2 + 3 + 4 = 360$$

$$115 + 108 + 105 + c = 360$$

$$328 + c = 360$$

$$c = 360 - 328$$

$c = 32$



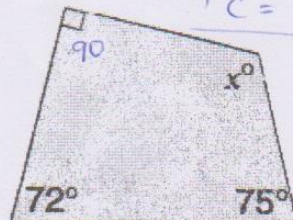
$$1 + 2 + 3 + 4 = 360$$

$$20 + 20 + 45 + g = 360$$

$$85 + g = 360$$

$$g = 360 - 85$$

$g = 275$



$$1 + 2 + 3 + 4 = 360$$

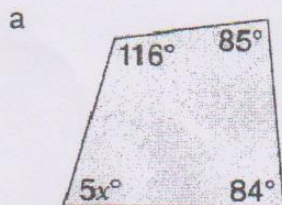
$$90 + 72 + 75 + x = 360$$

$$237 + x = 360$$

$$x = 360 - 237$$

$x = 123$

Part 2



$$5x + 116 + 85 + 84 = 360$$

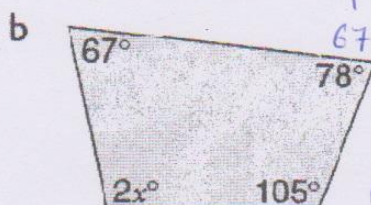
$$5x + 285 = 360$$

$$5x = 360 - 285$$

$$5x = 75$$

$$x = 75 \div 5$$

$x = 15$



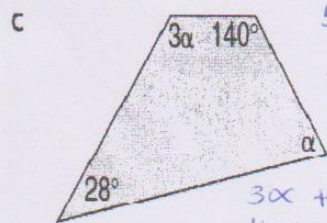
$$1 + 2 + 3 + 4 = 360$$

$$67 + 78 + 105 + 2x = 360$$

$$240 + x = 360$$

$$x = 360 - 240$$

$x = 120$



$$3\alpha + \alpha + 140 + 28 = 360$$

$$4\alpha + 168 = 360$$

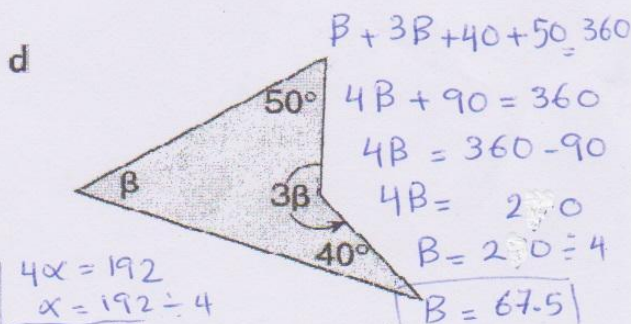
$$4\alpha = 360 - 168$$

$$4\alpha = 192$$

$$4\alpha = 192$$

$$\alpha = 192 \div 4$$

$\alpha = 48$



$$\beta + 3\beta + 40 + 50 = 360$$

$$4\beta + 90 = 360$$

$$4\beta = 360 - 90$$

$$4\beta = 270$$

$$\beta = 270 \div 4$$

$\beta = 67.5$