Aspire International School

PoP Quiz

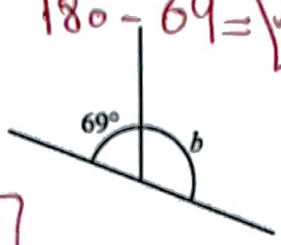
Model Answer

Angles about a Point and on a Straight line

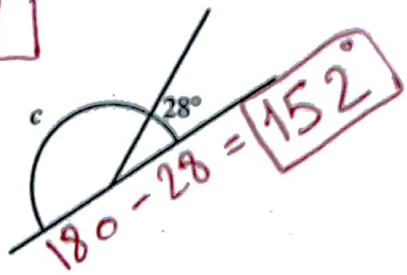
Exercise 1: Angles on a Straight line

Green: Find the missing angles and give reasons for your answers

$180 - 63 = 117°$



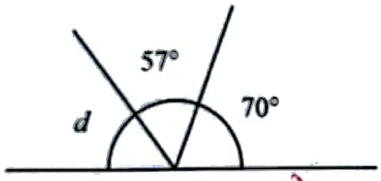
$180 - 69 = 111$



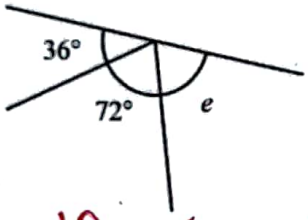
$180 - 28 = 152°$

Reason: Angles on a straight line

Orange: Find the missing angles and give reasons for your answers



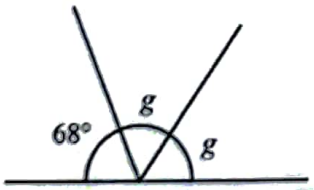
$180 - (57 + 70) = 53°$



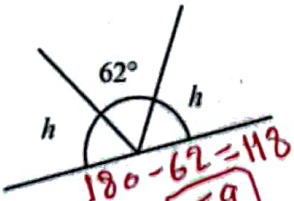
$180 - (72 + 36) = 72°$

$180 - (53 + 90) = 37°$

Red: Find the missing angles and give reasons for your answers



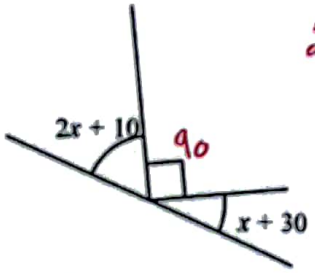
$180 - 68 = 112 \div 2 = 56$



$180 - 62 = 118 \div 2 = 59$

$180 - 90 = 90 \div 2 = 45$

Problem Solving: Find the value of x and give reasons for your answer.



$2x + 10 + 90 + x + 30 = 180$

$3x + 130 = 180$

$3x = 180 - 130$

$3x = 50°$

$x = 16.\overline{6}$

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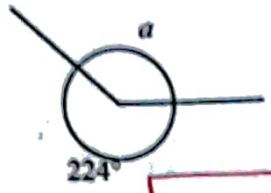
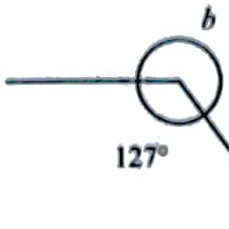
Exercise 2: Angles about a Point

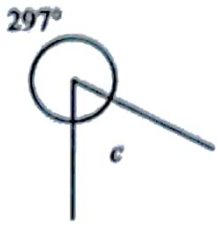
Green: Find the missing angles and give reasons for your answers



360 - 224 = 136°



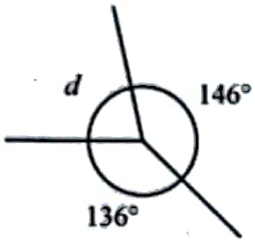
360 - 127 = 233°



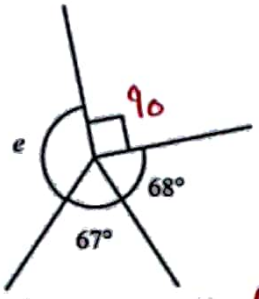
360 - 297 = 63°

Reason: Angles about a point

Orange: Find the missing angles and give reasons for your answers

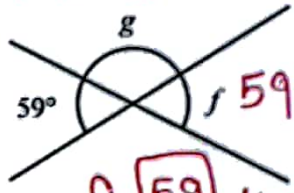


360 - (136 + 146) = 78°



360 - (90 + 68 + 67) = 135

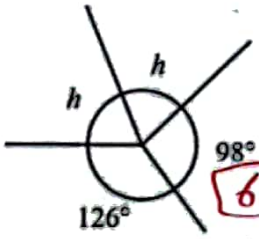
V.O.A



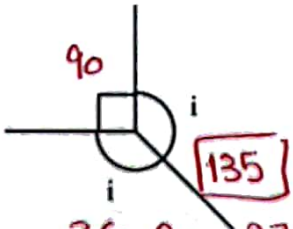
f = 59 V.O.A

g = 180 - 59 = 121 angles on a st. line

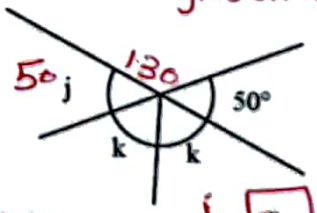
Red: Find the missing angles and give reasons for your answers



360 - (126 + 98) = 136 ÷ 2



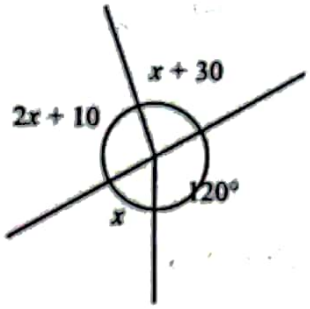
360 - 90 = 270 ÷ 2



j = 50 V.O.A

K = 130 ÷ 2 = 65

Problem Solving: Find the value of x and give reasons for your answer.



2X + 10 + X + 30 + 120 + X = 360

4X + 160 = 360

4X = 360 - 160

4X = 200

X = 200/4

X = 50°

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