GRADE 8 · GEOMETRY OF STRAIGHT LINES

Angle Relationships: Straight, Intersecting & Perpendicular Lines

WORKSHEET

Name: ..... Class: .....

Date: .....

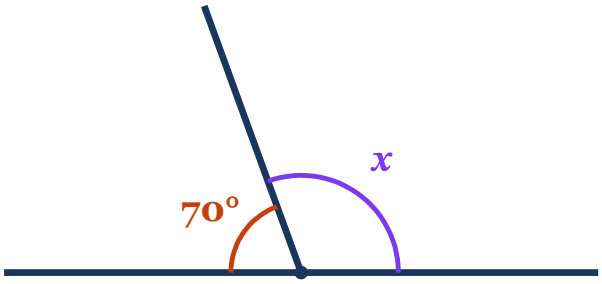
MARK ____ / 19

Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

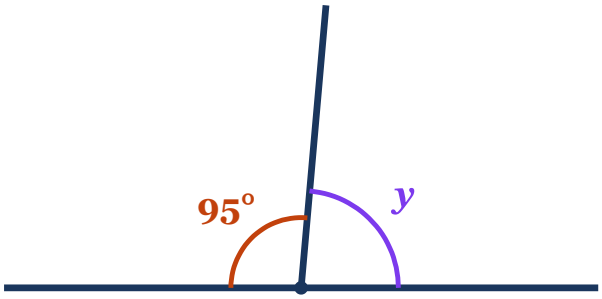
1 Two angles on a straight line are $(3x + 5)°$ and $(x + 15)°$. Determine the value of x, and hence the size of each angle. **(4)**

2 Two vertically opposite angles are $(4x + 10)°$ and $(2x + 50)°$. Determine the value of x, and hence the size of each angle. **(4)**

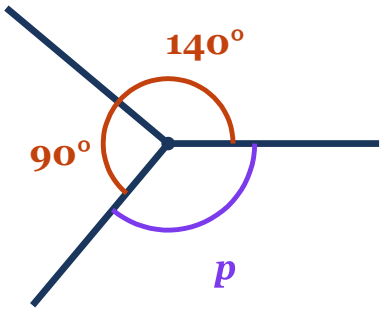
3 Angles of $70°$ and x lie on a straight line. Find x. **(1)**



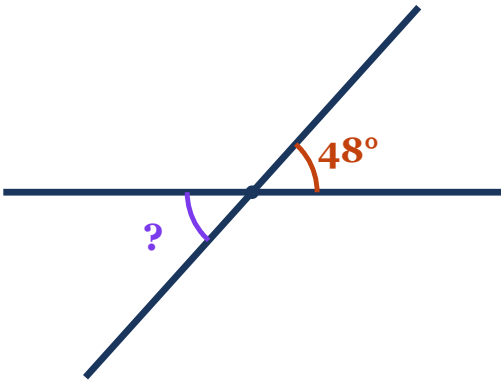
4 Angles of $95°$ and y lie on a straight line. Find y. **(1)**



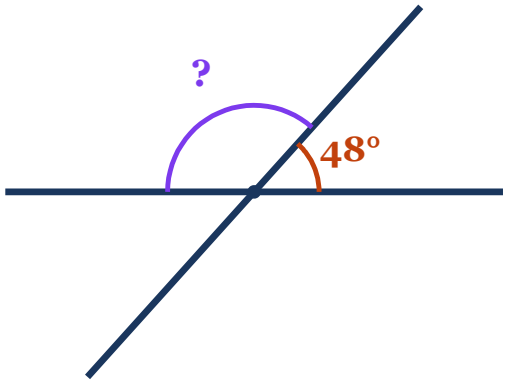
5 Angles of $140°$, $90°$ and p meet at a point. Find p. **(2)**



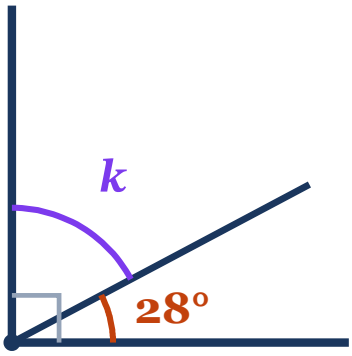
6 Two lines cross forming an angle of $48°$. What is its vertically opposite angle? **(1)**



7 Two lines cross forming an angle of $48°$. What is the neighbouring angle? (2)

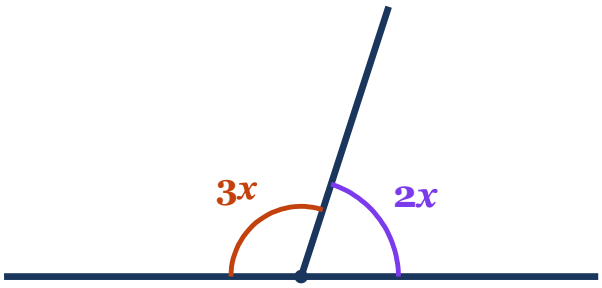


8 A right angle is split into $28°$ and k. Find k. (1)



9 What does AB ⊥ CD mean? (1)

10 Angles $3x$ and $2x$ lie on a straight line. Find x. **(2)**



TOTAL: 19 marks

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