GRADE 7 MATH · CLASSWORK · ADVANCED

Find the Measure of an Unknown Angle

SCORE / 25

01 Part A · Practice

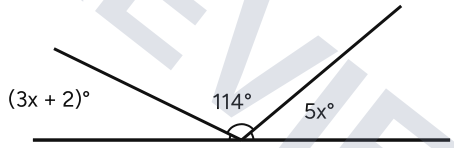
Angles on a line add to 180°, angles around a point add to 360°; write an equation and solve.

EXAMPLE

Angles of $x°$, $2x°$, and $60°$ form a straight line. Find x.

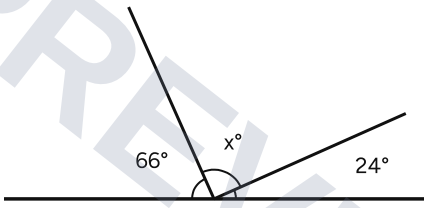
1. On a line: $x + 2x + 60 = 180$.
2. Combine: $3x + 60 = 180$, so $3x = 120$.
3. $x = 40$; the angles are $40°$ and $80°$.

1 ●○○ Find x and the measure of each unknown angle.

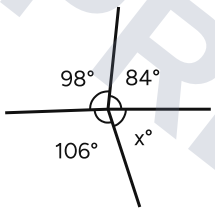


2 ●○○ Angles of $52°$, $40°$, and $x°$ form a straight angle. Find x and the angle vertical to it.

3 ●○○ Find x.



4 ●○○ Find x.



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Preview - the full worksheet and its answer key are at primeworksheet.com