

NWEA Assessment Item Illustrating 4.MD.C.7

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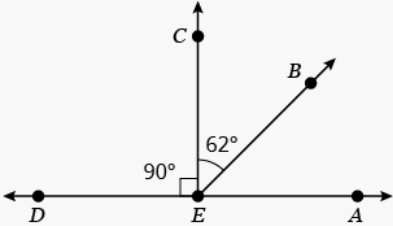
Domain: Measurement and Data

4.MD.C: Geometric measurement: understand concepts of angle and measure angles.

Calculator Availability: No

Use the diagram to answer the question.

The measure of $\angle DEA$ is 180° .



What is the measure of $\angle AEB$? Enter the answer in the box.

Alignment: 4.MD.C.7: Recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems, e.g., by using an equation with a symbol for the unknown angle measure.

This item assesses students' understanding of angle measurement. Grade 4 students should understand that angle measurements are additive and can be composed and decomposed.

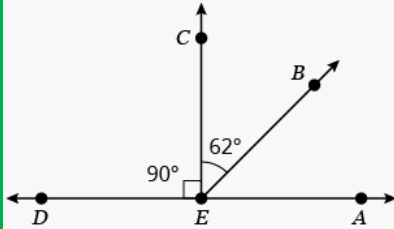
Coherence: Students first learn about concepts of angles and measuring angles in grade 4. They will apply what they learn about angles to classify shapes in grade 4 and grade 5.^{4.G.A.2, 5.G.B} In grade 7, students will extend their knowledge of angle addition and properties when they learn to solve problems involving angle measures.^{7.G.B.5}

Rigor: This item attends to conceptual understanding and procedural skill. Students must understand grade-level angle concepts in order to determine the measure of angle AEB. Students use procedural skill when they determine the unknown angle measure.

Answer Key:

Use the diagram to answer the question.

The measure of $\angle DEA$ is 180° .



What is the measure of $\angle AEB$? Enter the answer in the box.

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