

Name: _____

Date: _____

Score: _____ / 19

Angles & Parallel Lines

Straight lines, angles at a point, triangles and angles formed by a transversal.

Straight line adds to 180	At a point adds to 360	Triangle adds to 180	Opposite angles are equal
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Section A — Supplementary Angles

Find the missing angle.

- Angles on a straight line: $37 + \underline{\hspace{1cm}} = 180$
- Angles on a straight line: $112 + \underline{\hspace{1cm}} = 180$
- Angles on a straight line: $64 + \underline{\hspace{1cm}} = 180$
- Angles on a straight line: $155 + \underline{\hspace{1cm}} = 180$
- Angles on a straight line: $88 + \underline{\hspace{1cm}} = 180$
- Angles on a straight line: $129 + \underline{\hspace{1cm}} = 180$

Section B — Angles at a Point

Find the missing angle.

- Angles at a point: $90 + 140 + \underline{\hspace{1cm}} = 360$
- Angles at a point: $115 + 85 + \underline{\hspace{1cm}} = 360$
- Angles at a point: $72 + 168 + \underline{\hspace{1cm}} = 360$
- Angles at a point: $45 + 215 + \underline{\hspace{1cm}} = 360$

Section C — Triangles

Find the third angle.

- Triangle with 48 and 72 degrees. Third = $\underline{\hspace{1cm}}$
- Triangle with 105 and 30 degrees. Third = $\underline{\hspace{1cm}}$
- Triangle with 60 and 60 degrees. Third = $\underline{\hspace{1cm}}$
- Triangle with 25 and 115 degrees. Third = $\underline{\hspace{1cm}}$
- Triangle with 90 and 52 degrees. Third = $\underline{\hspace{1cm}}$
- Triangle with 38 and 97 degrees. Third = $\underline{\hspace{1cm}}$

Section D — Parallel Lines

Answer in a sentence.

- Parallel lines cut by a transversal: one angle is 65. Its co-interior angle?
- Opposite angles are always what?
- A regular pentagon: what is each interior angle?

Angles & Parallel Lines — Answer Key

For marking. Accept equivalent correct forms.

Section A — Supplementary Angles

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| 1. 143 | 2. 68 | 3. 116 |
| 4. 25 | 5. 92 | 6. 51 |

Section B — Angles at a Point

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| 7. 130 | 8. 160 | 9. 120 |
| 10. 100 | | |

Section C — Triangles

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|--------|--------|--------|
| 11. 60 | 12. 45 | 13. 60 |
| 14. 40 | 15. 38 | 16. 45 |

Section D — Parallel Lines

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|-----------------|-----------|-----------------|
| 17. 115 degrees | 18. equal | 19. 108 degrees |
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