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Name: _____

Date: _____

Fresh Math

Angle Bisector Theorem

Solve for x. Show your work.

- In triangle ABC, AB = 12, AC = 12.
 Angle bisector from A creates BD = 4. Find DC.
- 2. In triangle ABC, AB = 11, AC = 11.Angle bisector from A creates BD = 6. Find DC.

- 3. In triangle ABC, AB = 6, AC = 13. Angle bisector from A creates BD = 3. Find DC.
- 4. In triangle ABC, AB = 6, AC = 8.Angle bisector from A creates BD = 5. Find DC.

- 5. In triangle ABC, AB = 7, AC = 11. Angle bisector from A creates BD = 4. Find DC.
- 6. In triangle ABC, AB = 7, AC = 11. Angle bisector from A creates BD = 3. Find DC.

- 7. In triangle ABC, AB = 9, AC = 14. Angle bisector from A creates BD = 3. Find DC.
- 8. In triangle ABC, AB = 7, AC = 14. Angle bisector from A creates BD = 6. Find DC.



Angle Bisector Theorem - Answer Key

1. In triangle ABC, AB = 12, AC = 12. Angle bisector from A creates BD = 4. Find DC.

4.00

2. In triangle ABC, AB = 11, AC = 11.Angle bisector from A creates BD = 6. Find DC.

6.00

3. In triangle ABC, AB = 6, AC = 13. Angle bisector from A creates BD = 3. Find DC.

6.50

4. In triangle ABC, AB = 6, AC = 8. Angle bisector from A creates BD = 5. Find DC.

6.67

5. In triangle ABC, AB = 7, AC = 11.
Angle bisector from A creates BD = 4. Find DC.

6.29

6. In triangle ABC, AB = 7, AC = 11.
Angle bisector from A creates BD = 3. Find DC.

4.71

7. In triangle ABC, AB = 9, AC = 14. Angle bisector from A creates BD = 3. Find DC.

4.67

8. In triangle ABC, AB = 7, AC = 14. Angle bisector from A creates BD = 6. Find DC.

12.00