Name: _____ Date: _____

Fresh Math

Trig Ratios Intro - Medium

Right triangle ABC has a right angle at C. Find the hypotenuse, then sin A, cos A, and tan A.

1. BC = 3 (opposite A), AC = 4 (adjacent to A)

2. BC = 24 (opposite A), AC = 7 (adjacent to A)

3. BC = 5 (opposite A), AC = 12 (adjacent to A)

4. BC = 8 (opposite A), AC = 15 (adjacent to A)

5. BC = 63 (opposite A), AC = 60 (adjacent to A)

6. BC = 20 (opposite A), AC = 21 (adjacent to A)

Name: _____ Date: _____

Fresh Math

Trig Ratios Intro - Medium

Right triangle ABC has a right angle at C. Find the hypotenuse, then sin A, cos A, and tan A.

7. BC = 21 (opposite A), AC = 20 (adjacent to A)

8. BC = 21 (opposite A), AC = 72 (adjacent to A)

9. BC = 24 (opposite A), AC = 10 (adjacent to A)

10. BC = 4 (opposite A), AC = 3 (adjacent to A)

11. BC = 36 (opposite A), AC = 15 (adjacent to A)

12. BC = 12 (opposite A), AC = 9 (adjacent to A)

Name: _____ Date: _____

Fresh Math

Trig Ratios Intro - Medium

Right triangle ABC has a right angle at C. Find the hypotenuse, then sin A, cos A, and tan A.

13. BC = 12 (opposite A), AC = 5 (adjacent to A)

14. BC = 15 (opposite A), AC = 36 (adjacent to A)

15. BC = 42 (opposite A), AC = 40 (adjacent to A)

16. BC = 7 (opposite A), AC = 24 (adjacent to A)

Trig Ratios Intro - Medium - Answer Key

1. BC = 3 (opposite A), AC = 4 (adjacent to A)

   AB = 5; sin A = 3/5, cos A = 4/5, tan A = 3/4
2. BC = 24 (opposite A), AC = 7 (adjacent to A)

   AB = 25; sin A = 24/25, cos A = 7/25, tan A = 24/7
3. BC = 5 (opposite A), AC = 12 (adjacent to A)

   AB = 13; sin A = 5/13, cos A = 12/13, tan A = 5/12
4. BC = 8 (opposite A), AC = 15 (adjacent to A)

   AB = 17; sin A = 8/17, cos A = 15/17, tan A = 8/15
5. BC = 63 (opposite A), AC = 60 (adjacent to A)

   AB = 87; sin A = 21/29, cos A = 20/29, tan A = 21/20
6. BC = 20 (opposite A), AC = 21 (adjacent to A)

   AB = 29; sin A = 20/29, cos A = 21/29, tan A = 20/21

Trig Ratios Intro - Medium - Answer Key

7. BC = 21 (opposite A), AC = 20 (adjacent to A)

   AB = 29; sin A = 21/29, cos A = 20/29, tan A = 21/20

8. BC = 21 (opposite A), AC = 72 (adjacent to A)

   AB = 75; sin A = 7/25, cos A = 24/25, tan A = 7/24

9. BC = 24 (opposite A), AC = 10 (adjacent to A)

   AB = 26; sin A = 12/13, cos A = 5/13, tan A = 12/5

10. BC = 4 (opposite A), AC = 3 (adjacent to A)

    AB = 5; sin A = 4/5, cos A = 3/5, tan A = 4/3

11. BC = 36 (opposite A), AC = 15 (adjacent to A)

    AB = 39; sin A = 12/13, cos A = 5/13, tan A = 12/5

12. BC = 12 (opposite A), AC = 9 (adjacent to A)

    AB = 15; sin A = 4/5, cos A = 3/5, tan A = 4/3

Trig Ratios Intro - Medium - Answer Key

13. BC = 12 (opposite A), AC = 5 (adjacent to A)

    AB = 13; sin A = 12/13, cos A = 5/13, tan A = 12/5

14. BC = 15 (opposite A), AC = 36 (adjacent to A)

    AB = 39; sin A = 5/13, cos A = 12/13, tan A = 5/12

15. BC = 42 (opposite A), AC = 40 (adjacent to A)

    AB = 58; sin A = 21/29, cos A = 20/29, tan A = 21/20

16. BC = 7 (opposite A), AC = 24 (adjacent to A)

    AB = 25; sin A = 7/25, cos A = 24/25, tan A = 7/24