Name: _____ Date: _____

Fresh Math

Imaginary Unit I - Medium

Write each square root using i. Simplify completely.

1. $\sqrt{-75}$

2. $\sqrt{-5}$

3. $2\sqrt{-96}$

4. $\sqrt{-150}$

5. $5\sqrt{-112}$

6. $2\sqrt{-72}$

7. $\sqrt{-160}$

8. $3\sqrt{-2}$

9. $\sqrt{-28}$

10. $\sqrt{-40}$

Name: _____ Date: _____

Fresh Math

Imaginary Unit I - Medium

Write each square root using i. Simplify completely.

11. $2\sqrt{-75}$

12. $\sqrt{-20}$

13. $\sqrt{-8}$

14. $\sqrt{-54}$

15. $5\sqrt{-6}$

16. $4\sqrt{-112}$

17. $\sqrt{-176}$

18. $\sqrt{-27}$

19. $2\sqrt{-125}$

20. $4\sqrt{-40}$

Imaginary Unit I - Medium - Answer Key

1. $\sqrt{-75}$

   $5i\sqrt{3}$

2. $\sqrt{-5}$

   $i\sqrt{5}$

3. $2\sqrt{-96}$

   $8i\sqrt{6}$

4. $\sqrt{-150}$

   $5i\sqrt{6}$

5. $5\sqrt{-112}$

   $20i\sqrt{7}$

6. $2\sqrt{-72}$

   $12i\sqrt{2}$

7. $\sqrt{-160}$

   $4i\sqrt{10}$

8. $3\sqrt{-2}$

   $3i\sqrt{2}$

9. $\sqrt{-28}$

   $2i\sqrt{7}$

10. $\sqrt{-40}$

    $2i\sqrt{10}$

Imaginary Unit I - Medium - Answer Key

11. $2\sqrt{-75}$

$10i\sqrt{3}$

12. $\sqrt{-20}$

$2i\sqrt{5}$

13. $\sqrt{-8}$

$2i\sqrt{2}$

14. $\sqrt{-54}$

$3i\sqrt{6}$

15. $5\sqrt{-6}$

$5i\sqrt{6}$

16. $4\sqrt{-112}$

$16i\sqrt{7}$

17. $\sqrt{-176}$

$4i\sqrt{11}$

18. $\sqrt{-27}$

$3i\sqrt{3}$

19. $2\sqrt{-125}$

$10i\sqrt{5}$

20. $4\sqrt{-40}$

$8i\sqrt{10}$