

Math Sheet

Name _____ Score _____ / 16 Teacher _____ Date _____

Decimal and Octal Conversion

Convert each number to the requested base.

Decimal to target base

1. 63_{10}

8

2. 0_{10}

8

3. 17_{10}

8

4. 59_{10}

8

5. 61_{10}

8

6. 28_{10}

8

7. 21_{10}

8

8. 56_{10}

8

Target base to decimal

9. 75_8

10

10. 42_8

10

11. 77_8

10

12. 24_8

10

13. 20_8

10

14. 44_8

10

15. 0_8

10

16. 72_8

10

Math Sheet

Name _____ Score _____ / 16 Teacher _____ Date _____

Decimal and Octal Conversion

Answer key

Convert each number to the requested base.

Decimal to target base

1. 63_{10}
 77
_____ 8

2. 0_{10}
 0
_____ 8

3. 17_{10}
 21
_____ 8

4. 59_{10}
 73
_____ 8

5. 61_{10}
 75
_____ 8

6. 28_{10}
 34
_____ 8

7. 21_{10}
 25
_____ 8

8. 56_{10}
 70
_____ 8

Target base to decimal

9. 75_8
 61
_____ 10

10. 42_8
 34
_____ 10

11. 77_8
 63
_____ 10

12. 24_8
 20
_____ 10

13. 20_8
 16
_____ 10

14. 44_8
 36
_____ 10

15. 0_8
 0
_____ 10

16. 72_8
 58
_____ 10