

Roots - Math X

scratch

Functions

```
RandomInteger[1000]
```

```
664
```

```
PrimeQ[664]
```

```
False
```

```
FactorInteger[664]
```

```
{{2, 3}, {83, 1}}
```

```
Power[2, 4]
```

```
16
```

```
2^4
```

```
16
```

```
Sqrt[16]
```

```
4
```

```
16^(1/4)
```

```
2
```

```
54^(1/3)
```

```
3 21/3
```

```
TraditionalForm[54^(1/3)]
```

```
 $3\sqrt[3]{2}$ 
```

Also include style reminders. (Section and text)

Assignment

Generate five composite (not prime) random numbers (one less than 100, two less than 1000, and two less than 10000). Analyze each number using the functions PrimeQ, FactorInteger, Power, and Sqrt. Write a short report about each number including references to different types of roots. Type your report in *Mathematica* using a different section for each number and include your analysis in a text style cell under the input and output cells you used to analyze the number.