

Name _____

Date _____



FACTOR TREE WORKSHEET 6

Draw the factor trees and complete the prime factor product.

1)

68

$$68 = _ \times _ \times _$$

2)

104

$$104 = _ \times _ \times _ \times _$$

3)

78

$$78 = _ \times _ \times _$$

4)

225

$$215 = _ \times _ \times _ \times _$$



FACTOR TREE WORKSHEET 6 ANSWERS

Please note – the factor trees can be completed in different ways, with the prime factors in a different order.

<p>1)</p> <pre> graph TD 68[68] --- 2((2)) 68 --- 34[34] 34 --- 2_2((2)) 34 --- 17((17)) </pre> <p>$68 = \underline{2 \times 2 \times 17 = 2^2 \times 17}$</p>	<p>2)</p> <pre> graph TD 104[104] --- 4[4] 104 --- 26[26] 4 --- 2_1((2)) 4 --- 2_2((2)) 26 --- 2_3((2)) 26 --- 13((13)) </pre> <p>$104 = \underline{2 \times 2 \times 2 \times 13 = 2^3 \times 13}$</p>
<p>3)</p> <pre> graph TD 78[78] --- 2((2)) 78 --- 39[39] 39 --- 3((3)) 39 --- 13((13)) </pre> <p>$78 = \underline{2 \times 3 \times 13}$</p>	<p>4)</p> <pre> graph TD 225[225] --- 9[9] 225 --- 25[25] 9 --- 3_1((3)) 9 --- 3_2((3)) 25 --- 5_1((5)) 25 --- 5_2((5)) </pre> <p>$225 = \underline{3 \times 3 \times 5 \times 5 = 3^2 \times 5^2}$</p>