

# Worksheet

04/21/2019

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Problem quickname: 6003

1)

Which of these are prime numbers?

Quick:  
6003

- a) 69 is not prime:  $69 = 3 \cdot 23$       b) 93 is not prime:  $93 = 3 \cdot 31$   
 c) 77 is not prime:  $77 = 7 \cdot 11$       d) 37 is prime      e) 9 is not prime:  $9 = 3^2$   
 f) 23 is prime      g) 87 is not prime:  $87 = 3 \cdot 29$       h) 41 is prime  
 i) 46 is not prime:  $46 = 2 \cdot 23$       j) 59 is prime

2)

Which of these are prime numbers?

Quick:  
6003

- a) 47 is prime      b) 57 is not prime:  $57 = 3 \cdot 19$   
 c) 122 is not prime:  $122 = 2 \cdot 61$       d) 119 is not prime:  $119 = 7 \cdot 17$   
 e) 142 is not prime:  $142 = 2 \cdot 71$       f) 109 is prime      g) 127 is prime  
 h) 113 is prime      i) 186 is not prime:  $186 = 2 \cdot 3 \cdot 31$       j) 163 is prime

3)

Which of these are prime numbers?

Quick:  
6003

- a) 108 is not prime:  $108 = 2^2 \cdot 3^3$       b) 15 is not prime:  $15 = 3 \cdot 5$   
 c) 70 is not prime:  $70 = 2 \cdot 5 \cdot 7$       d) 150 is not prime:  $150 = 2 \cdot 3 \cdot 5^2$   
 e) 45 is not prime:  $45 = 3^2 \cdot 5$       f) 105 is not prime:  $105 = 3 \cdot 5 \cdot 7$   
 g) 135 is not prime:  $135 = 3^3 \cdot 5$       h) 175 is not prime:  $175 = 5^2 \cdot 7$   
 i) 27 is not prime:  $27 = 3^3$       j) 126 is not prime:  $126 = 2 \cdot 3^2 \cdot 7$

4)

Which of these are prime numbers?

Quick:  
6003

- a) 77 is not prime:  $77 = 7 \cdot 11$       b) 132 is not prime:  $132 = 2^2 \cdot 3 \cdot 11$   
 c) 65 is not prime:  $65 = 5 \cdot 13$       d) 196 is not prime:  $196 = 2^2 \cdot 7^2$   
 e) 11 is prime      f) 198 is not prime:  $198 = 2 \cdot 3^2 \cdot 11$       g) 7 is prime  
 h) 91 is not prime:  $91 = 7 \cdot 13$       i) 17 is prime  
 j) 156 is not prime:  $156 = 2^2 \cdot 3 \cdot 13$

Good Luck!