Factors 4th Grade Workbook 1
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List out all the possible factors for each number.

1) 24

2) 35

3) 9

4) 42

5) 50

6) 19

7) 12

8) 28

9) 7

10) 16

11) 18

12) 45

Listing the factors
List out all possible factors for each number.

1) 88

2) 42

3) 64

4) 55

5) 100

6) 6

7) 76

8) 82

9) 60

10) 96
Complete the product strategy to find the factors of each number.

1) 36

\[
\begin{align*}
\square \times 36 &= 36 \\
2 \times \square &= 36 \\
\square \times 12 &= 36 \\
4 \times \square &= 36 \\
\square \times 6 &= 36
\end{align*}
\]

The factors of 36 are __________________

2) 12

\[
\begin{align*}
1 \times \square &= 12 \\
\square \times 6 &= 12 \\
3 \times \square &= 12
\end{align*}
\]

The factors of 12 are __________________

3) 28

\[
\begin{align*}
1 \times \square &= 28 \\
2 \times \square &= 28 \\
\square \times 7 &= 28
\end{align*}
\]

The factors of 28 are __________________

4) 45

\[
\begin{align*}
\square \times 45 &= 45 \\
\square \times 15 &= 45 \\
5 \times \square &= 45
\end{align*}
\]

The factors of 45 are __________________

5) Write your own product strategy to find the factors of 50.

The factors of 50 are __________________
Complete the product strategy to find the factors of each number.

1) 60

\[ \square \times 60 = 60 \]
\[ 2 \times \square = 60 \]
\[ 3 \times \square = 60 \]
\[ \square \times 15 = 60 \]
\[ \square \times 12 = 60 \]
\[ 6 \times \square = 60 \]

The factors of 60 are ____________________

2) 78

\[ 1 \times \square = 78 \]
\[ \square \times 39 = 78 \]
\[ 3 \times \square = 78 \]
\[ \square \times 13 = 78 \]

The factors of 78 are ____________________

3) 56

\[ 1 \times \square = 56 \]
\[ \square \times 28 = 56 \]
\[ \square \times 14 = 56 \]
\[ 7 \times \square = 56 \]

The factors of 56 are ____________________

4) 92

\[ \square \times 92 = 92 \]
\[ \square \times 46 = 92 \]
\[ 4 \times \square = 92 \]

The factors of 92 are ____________________

5) Write your own product strategy to find the factors of 84.

The factors of 84 are ____________________
Complete the prime factor tree for each number.

1) \[
\begin{array}{c}
16 \\
\quad 2 \\
\quad 2 \\
\quad 2
\end{array}
\]

2) \[
\begin{array}{c}
42 \\
14 \\
\quad 2
\end{array}
\]

3) \[
\begin{array}{c}
40 \\
2 \\
\quad 2 \\
\quad 5
\end{array}
\]

4) \[
\begin{array}{c}
24 \\
4 \\
\quad 2 \\
\quad 2
\end{array}
\]

5) \[
\begin{array}{c}
18 \\
\quad 2 \\
\quad 3
\end{array}
\]

6) \[
\begin{array}{c}
30 \\
10 \\
\quad 2
\end{array}
\]
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A) Circle all the Prime numbers.

13  54  37  96  89  45  61

29  2  10  69  36  53  47

41  79  72  5  97  27  84

B) Circle all the Composite numbers.

73  92  79  7  21  80  17

8  97  15  83  19  62  51

11  4  23  32  67  3  49

C) Multiple choice questions.

1) Choose the greatest prime number.
   a) 74   b) 23   c) 69   d) 31

2) Choose the smallest composite number.
   a) 12   b) 59   c) 8   d) 43
<table>
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<th>Prime or Composite Numbers</th>
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<td>10</td>
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</tbody>
</table>

List out the factors of each number and write if the number is prime or composite.

1) 47
   - Factors are __________________________
   - Is 47 a prime or composite? __________

2) 6
   - Factors are __________________________
   - Is 6 a prime or composite? __________

3) 30
   - Factors are __________________________
   - Is 30 a prime or composite? __________

4) 23
   - Factors are __________________________
   - Is 23 a prime or composite? __________

5) 5
   - Factors are __________________________
   - Is 5 a prime or composite? __________

6) 18
   - Factors are __________________________
   - Is 18 a prime or composite? __________

7) 27
   - Factors are __________________________
   - Is 27 a prime or composite? __________

8) 41
   - Factors are __________________________
   - Is 41 a prime or composite? __________

9) 19
   - Factors are __________________________
   - Is 19 a prime or composite? __________

10) 34
    - Factors are __________________________
    - Is 34 a prime or composite? __________
Help the Penguine to find the nestlings by coloring all the prime numbers.

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Prime Number Maze

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Help David to find the basketball court by coloring all the composite numbers.

### Composite Number Maze

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1) Which of the following is not a prime number?
   a) 13  
   b) 97  
   c) 27  
   d) 61

2) Which of the following is an odd composite number?
   a) 71  
   b) 55  
   c) 83  
   d) 37

3) Which of the following number has only two factors?
   a) 7   
   b) 10  
   c) 42  
   d) 15

4) Which of the following is an even prime number?
   a) 12  
   b) 3   
   c) 6   
   d) 2

5) Which of the following is a composite number?
   a) 17  
   b) 15  
   c) 19  
   d) 11

6) Which of the following number has more than two factors?
   a) 59  
   b) 23  
   c) 67  
   d) 49

7) Which of the following is not a composite number?
   a) 83  
   b) 81  
   c) 85  
   d) 87

8) Which of the following is a prime number?
   a) 39  
   b) 66  
   c) 47  
   d) 51