Primed for Survival

NAME: ....

CLASS: ....

DATE: ....

Basic

1) Write the next four multiples in each list.

a) 2, 4, 6, 8, 10,

b) 3, 6, 9, 12, 15,

c) 12, 24, 36, 48, 60,

2) Find the smallest common multiples of:

a) 2 and 3   b) 2 and 5

c) 3 and 4   d) 6 and 8

3) For each number, complete all the factor pairs.

a) 20   b) 40   c) 54

4) Are the following statements true or false?

a) All prime numbers are odd numbers.

b) 1 is not a prime number.

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Core

1) Write the next four multiples in each list.

a) 15, 30, 45, 60,   b) 33, 66, 99, 132,

2) For each number, complete all the factors pairs.

a) 14   b) 32   c) 63

3) Determine the highest common factors of:

a) 44 and 132   b) 36 and 54   c) 13 and 104

4) What is the only even prime number?

5) List the first ten prime numbers.

6) Determine which of these numbers are prime:

a) 101   b) 119

c) 173   d) 209

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Advanced

1) Write down the first six multiples of 8 and the first six multiples of 10.

What is the lowest common multiple of 8 and 10?

2) What are the prime factors of:

a) 40   b) 52

c) 32   d) 72

3) Express the following as a product of prime factors in index form:

a) 24   b) 36

c) 150   d) 147

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ANSWERS

Basic

1) a) 12, 14, 16, 18   b) 18, 21, 24, 27   c) 72, 84, 96, 108

2) a) 6   b) 10
   c) 12   d) 24

3) a) 1x20, 2x10, 4x5   b) 1x40, 2x20, 4x10, 5x8   c) 1x54, 2x27, 3x18, 6x9

4) a) False; 2 is a prime number   b) True; 1 only has one factor

Core

1) a) 75, 90, 105, 120   b) 165, 198, 231, 264

2) a) 1x14, 2x7   b) 1x32, 2x16, 4x8   c) 1x63, 3x21, 7x9

3) a) 44   b) 18   c) 13

4) 2

5) 2, 3, 5, 7, 11, 13, 17, 19, 23, 27

6) a) Prime   b) Not prime
   c) Prime   d) Not prime

Advanced

1) Multiples of 8 – 8, 16, 24, 32, 40, 48   Multiples of 10 – 10, 20, 30, 40, 50, 60
Lowest common multiple is 40

2) a) 2,5   b) 2,13   c) 2   d) 2,3

3) a) $2^3 \times 3$ b) $2^2 \times 3^2$ c) $2 \times 3 \times 5^2$ d) 3×7^2