

P4 Singapore Math

Factors and Multiples ①

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Name: _____ Date: _____

Factors

$$\underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = 18$$

Factors

List all the factors of 18:

$1 \times 18 = 18$

$2 \times 9 = 18$

$3 \times 6 = 18$

So, the factors of 18 are 1, 2, 3, 6, 9 and 18.



Multiples

Multiples are the numbers you get when you skip count.

For example, the multiples of 2 are:

2, 4, 6, 8, 10, 12,.....
+2 +2 +2 +2 +2

Hence, the first multiple of 2 is 2.

The second multiple of 2 is 4.

The third multiple of 2 is 6.

Finding Common Factors

Eg: Find the common factors of 6 and 18:

List the factors of 6 and 18 first. Then, circle the factors that are common between them. Those are the common factors.

$1 \times 18 = 18 \quad 1 \times 6 = 6$

$2 \times 9 = 18 \quad 2 \times 3 = 6$

$3 \times 6 = 18$

Hence, the common factors of 6 and 18 are 1, 2, 3 and 6.

Finding Common Multiples

Eg: Find the first common multiple of 3 and 6:

List the multiples of 3:

3, 6, 9, 12, 15, 18...

List the multiples of 6:

6, 12, 18, 24...

The first common multiple of 3 and 6 is 6.

Question 1.

Write down the following **factors** of these numbers:

10

14

36

45

Question 2.

List the next 4 **multiples** of each of these numbers:

4, _____, _____, _____, _____

6, _____, _____, _____, _____

7, _____, _____, _____, _____

8, _____, _____, _____, _____

12, _____, _____, _____, _____

15, _____, _____, _____, _____

Question 3.

Find out the **common factors** of the following:

10 and 14

25 and 30

18 and 36

21 and 35

24 and 40

Question 4.

Find out the **first three common multiples** of the following:

2 and 4

5 and 15

10 and 20

2 and 7

5 and 8

ANSWER KEY

1) Write down the following factors of these numbers:

10 – 1, 2, 5, 10

14 – 1, 2, 7, 14

36 – 1, 2, 3, 4, 6, 9, 12, 18, 36

45 – 1, 3, 5, 9, 15, 45

2) List the next 4 multiples of each of these numbers:

4, 8, 12, 16, 20

6, 12, 18, 24, 30

7, 14, 21, 28, 35

8, 16, 24, 32, 40

12, 24, 36, 48, 60

15, 30, 45, 60, 75

ANSWER KEY

3) Find out the common factors of the following:

10 and 14 – 1, 2

25 and 30 – 1, 5

18 and 36 – 1, 2, 3, 6, 9, 18

21 and 35 – 1, 7

24 and 40 – 1, 2, 4, 8

4) Find out the first three common multiples of the following:

2 and 4 – 4, 8, 12

5 and 15 – 15, 30, 45

10 and 20 – 20, 40, 60

2 and 7 – 14, 28, 42

5 and 8 – 40, 80, 120