

Learning Objective:	Lowest Common Multiples	Name:	
		Date:	

Do NOW Activity:

- 1 What is total of $100 + 0.5 + 0.05$?
- 2 **Work out** 93×35
- 3 **Simplify** $2 \times a \times a$
- 4 If $x = 3$ work out the value of $10x - 20$
- 5 **Round** 0.586 correct to 1 significant figure

PRIOR KNOWLEDGE CHECK:

1. I can find the lowest common multiple of two numbers.

THE MAIN EVENT

WORKED EXAMPLE #1:

Multiple: the times table of a number

Multiples of 10: 10, 20, 30, 40

Lowest common multiple of 2 and 5 = 10

Here is a list of numbers.

2 9 11 15 18 31 32

From the numbers on the list,

(a) write down a multiple of 8

$$\begin{array}{r} 32 \\ \hline (1) \end{array}$$

(b) write down a multiple of 6

$$\begin{array}{r} 18 \\ \hline (1) \end{array}$$

PRACTICE #1:

- Question 1: (a) Write down the first ten multiples of 2.
 (b) Write down the first ten multiples of 3.
 (c) List the first three common multiples of 2 and 3.

- Question 2: (a) Write down the first ten multiples of 4.
 (b) Write down the first ten multiples of 5.
 (c) List the first three common multiples of 4 and 5.

Question 3: Write down three common multiples of each of these pairs of numbers.

- (a) 2 and 5 (b) 3 and 4 (c) 4 and 6 (d) 10 and 15
 (e) 20 and 30 (f) 3 and 5 (g) 6 and 9 (h) 6 and 12

- Question 4: (a) Write down the first ten multiples of 5.
 (b) Write down the first ten multiples of 8.
 (c) Find the lowest common multiple (LCM) of 5 and 8.

- Question 5: (a) Write down the first ten multiples of 6.
 (b) Write down the first ten multiples of 8.
 (c) Find the lowest common multiple (LCM) of 6 and 8.

Question 6: Find the lowest common multiple (LCM) of each of these pairs of numbers.

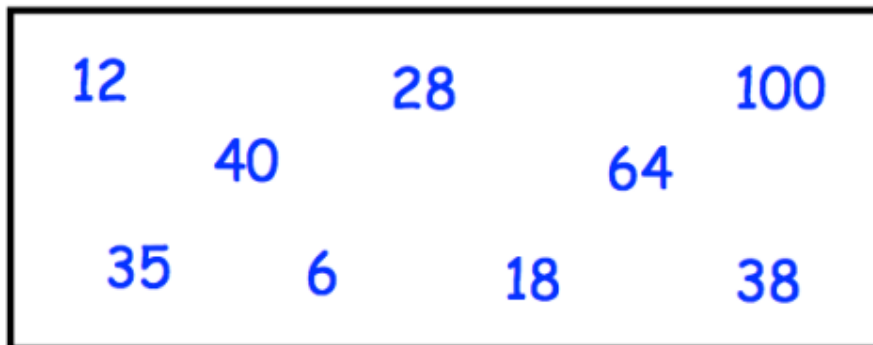
- (a) 5 and 6 (b) 2 and 7 (c) 3 and 8 (d) 4 and 10
(e) 9 and 4 (f) 6 and 7 (g) 6 and 8 (h) 9 and 12
(i) 15 and 40 (j) 12 and 20 (k) 13 and 4 (l) 18 and 6
(m) 25 and 35 (n) 22 and 33 (o) 16 and 24 (p) 20 and 28

Question 7: Find the lowest common multiple (LCM) of each of these sets of numbers.

- (a) 2, 3 and 5 (b) 3, 4 and 5 (c) 2, 5 and 7 (d) 5, 6 and 9
(e) 10, 12 and 15 (f) 2, 3, 4 and 5 (g) 1, 2, 3, 4, 5 and 6.

Exam Type Questions:

1.



From the box above, choose two numbers that:

(a) have a common factor of 10

..... and
(1)

(b) have a common multiple of 24

..... and
(1)