

<b>Learning Objective:</b>	Multiples and Factors	<b>Name:</b>	
		<b>Date:</b>	

**Do NOW Activity:**

- 1 What is total of  $200 + 5 + 0.5 + 0.06$ ?
- 2 **Work out**  $75 \times 28$
- 3 **Simplify**  $3a + a + a + b + 2b$
- 4 If  $x = 4$  work out the value of  $4x - 2$
- 5 **Round** 6450 correct to 1 significant figure

**PRIOR KNOWLEDGE CHECK:**

1. I can find multiples and factors

**THE MAIN EVENT**

**WORKED EXAMPLE #1:**

Write down two factors of 18

Factors – Numbers that can be divided equally into another number.

1, 18 2, 9 3, 6 (Any 2)

**PRACTICE #1:**

Question 1: List all the factors of these numbers

- |        |        |        |        |         |        |        |
|--------|--------|--------|--------|---------|--------|--------|
| (a) 8  | (b) 10 | (c) 7  | (d) 12 | (e) 20  | (f) 22 | (g) 18 |
| (h) 50 | (i) 15 | (j) 19 | (k) 30 | (l) 100 | (m) 32 | (n) 24 |
| (o) 42 | (p) 28 | (q) 66 | (r) 70 | (s) 45  | (t) 60 | (u) 25 |

Question 2: Is 3 a factor of... ?

- |        |        |        |        |        |         |         |
|--------|--------|--------|--------|--------|---------|---------|
| (a) 14 | (b) 21 | (c) 27 | (d) 32 | (e) 57 | (f) 301 | (g) 100 |
|--------|--------|--------|--------|--------|---------|---------|

Question 3: Is 5 a factor of... ?

- |        |        |        |        |        |         |         |
|--------|--------|--------|--------|--------|---------|---------|
| (a) 20 | (b) 34 | (c) 40 | (d) 38 | (e) 45 | (f) 102 | (g) 135 |
|--------|--------|--------|--------|--------|---------|---------|

Question 4: List all the factors of these numbers (you may use a calculator)

- |        |         |         |         |         |         |         |
|--------|---------|---------|---------|---------|---------|---------|
| (a) 84 | (b) 140 | (c) 200 | (d) 240 | (e) 145 | (f) 192 | (g) 244 |
|--------|---------|---------|---------|---------|---------|---------|

Question 5: Is 9 a factor of... ?

- |        |        |        |         |         |          |         |
|--------|--------|--------|---------|---------|----------|---------|
| (a) 38 | (b) 90 | (c) 72 | (d) 108 | (e) 909 | (f) 9001 | (g) 293 |
|--------|--------|--------|---------|---------|----------|---------|

**Worked example 2:**

Write down two multiples of 8

Multiples : Times table of a number

8, 16, 24, 32, 40.. (Any 2)

Question 1: Write down the first six multiples of these numbers

- (a) 5      (b) 3      (c) 4      (d) 10      (e) 7      (f) 9  
(g) 11      (h) 20      (i) 100      (j) 50      (k) 12      (l) 35

Question 2: Below is a list of numbers.

12    15    17    20    22    25    27    30    32    35    39    40

From the list write down any numbers that are multiples of:

- (a) 2      (b) 5      (c) 10      (d) 3      (e) 4      (f) 8

Question 3: List all the numbers between 40 and 60 (inclusive) that are multiples of:

- (a) 5      (b) 3      (c) 6      (d) 8      (e) 9      (f) 14

Question 4: Below is a list of numbers.

100    101    102    103    104    105    106    107    108    109

From the list write down any numbers that are multiples of:

- (a) 2      (b) 3      (c) 5      (d) 10      (e) 4      (f) 15

Exam Type Questions:

1. Write down the first **five** multiples of 3.

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(1)

4. Write down all the factors of 16.

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(2)