

Varied Fluency

Step 1: Common Multiples

National Curriculum Objectives:

Mathematics Year 6: (6C5) [Identify common factors, common multiples and prime numbers](#)

Differentiation:

Developing Questions to support identifying common multiples of two numbers. Including multiples up to 12×12 and multiplication grids to support.

Expected Questions to support identifying common multiples of two numbers. Including multiples up to and beyond 12×12 with partially completed multiplication grids to support.

Greater Depth Questions to support identifying common multiples of two numbers. Including multiples beyond 12×12 and decimal numbers, using known times table and number facts, i.e. 25 and 12.5. No multiplication grids to support.

More [Year 5 and Year 6 Multiplication and Division](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Common Multiples

1a. Circle the common multiple of 2 and 3.

21 12 20

Key Facts	
$2 \times 4 = 8$	$3 \times 4 = 12$
$2 \times 5 = 10$	$3 \times 5 = 15$
$2 \times 6 = 12$	$3 \times 6 = 18$
$2 \times 7 = 14$	$3 \times 7 = 21$
$2 \times 8 = 16$	$3 \times 8 = 24$
$2 \times 9 = 18$	$3 \times 9 = 27$
$2 \times 10 = 20$	$3 \times 10 = 30$



6 VF

Common Multiples

1b. Circle the common multiple of 4 and 5.

30 12 20

Key Facts	
$4 \times 2 = 8$	$5 \times 2 = 10$
$4 \times 3 = 12$	$5 \times 3 = 15$
$4 \times 4 = 16$	$5 \times 4 = 20$
$4 \times 5 = 20$	$5 \times 5 = 25$
$4 \times 6 = 24$	$5 \times 6 = 30$
$4 \times 7 = 28$	$5 \times 7 = 35$
$4 \times 8 = 32$	$5 \times 8 = 40$



6 VF

2a. True or false?

The lowest common multiple of 6 and 8 is 16.

Key Facts	
$6 \times 2 = 12$	$8 \times 2 = 16$
$6 \times 3 = 18$	$8 \times 3 = 24$
$6 \times 4 = 24$	$8 \times 4 = 32$
$6 \times 5 = 30$	$8 \times 5 = 40$



6 VF

2b. True or false?

The lowest common multiple of 3 and 4 is 16.

Key Facts	
$3 \times 2 = 6$	$4 \times 2 = 8$
$3 \times 3 = 9$	$4 \times 3 = 12$
$3 \times 4 = 12$	$4 \times 4 = 16$
$3 \times 5 = 15$	$4 \times 5 = 20$



6 VF

3a. Here is part of a 100 square.

11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40

A common multiple of 4 and 12 has been circled. Circle the next 2.

Key Facts	
$4 \times 3 = 12$	$12 \times 1 = 12$
$4 \times 4 = 16$	$12 \times 2 = 24$
$4 \times 5 = 20$	$12 \times 3 = 36$
$4 \times 6 = 24$	$12 \times 4 = 48$
$4 \times 7 = 28$	$12 \times 5 = 60$
$4 \times 8 = 32$	$12 \times 6 = 72$
$4 \times 9 = 36$	$12 \times 7 = 84$
$4 \times 10 = 40$	$12 \times 8 = 96$



6 VF

3b. Here is part of a 100 square.

11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40

A common multiple of 5 and 10 has been circled. Circle the next 2.

Key Facts	
$5 \times 1 = 5$	$10 \times 1 = 10$
$5 \times 2 = 10$	$10 \times 2 = 20$
$5 \times 3 = 15$	$10 \times 3 = 30$
$5 \times 4 = 20$	$10 \times 4 = 40$
$5 \times 5 = 25$	$10 \times 5 = 50$
$5 \times 6 = 30$	$10 \times 6 = 60$
$5 \times 7 = 35$	$10 \times 7 = 70$
$5 \times 8 = 40$	$10 \times 8 = 80$



6 VF

Common Multiples

4a. Circle the common multiples of 6 and 7.

48 42 91

76 126 84

Key Facts

$6 \times 2 = 12$	$7 \times 2 = 14$
$6 \times 5 = 30$	$7 \times 5 = 35$
$6 \times 10 = 60$	$7 \times 10 = 70$
$6 \times 12 = 72$	$7 \times 12 = 84$



6 VF

Common Multiples

4b. Circle the common multiples of 4 and 12.

60 44 48

32 156 56

Key Facts

$4 \times 2 = 8$	$12 \times 2 = 24$
$4 \times 5 = 20$	$12 \times 5 = 60$
$4 \times 10 = 40$	$12 \times 10 = 120$
$4 \times 12 = 48$	$12 \times 12 = 144$



6 VF

5a. True or false?

The lowest common multiple of 8 and 12 is 96.

Key Facts

$8 \times 2 = 16$	$12 \times 2 = 24$
$8 \times 5 = 40$	$12 \times 5 = 60$
$8 \times 10 = 80$	$12 \times 10 = 120$
$8 \times 12 = 96$	$12 \times 12 = 144$



6 VF

5b. True or false?

The lowest common multiple of 7 and 8 is 56.

Key Facts

$7 \times 2 = 14$	$8 \times 2 = 16$
$7 \times 5 = 35$	$8 \times 5 = 40$
$7 \times 10 = 70$	$8 \times 10 = 80$
$7 \times 12 = 84$	$8 \times 12 = 96$



6 VF

6a. Here is part of a 100 square.

41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90

A common multiple of 4 and 6 has been circled. Circle the next 3.

Key Facts

$4 \times 2 = 8$	$6 \times 2 = 12$
$4 \times 5 = 20$	$6 \times 5 = 30$
$4 \times 10 = 40$	$6 \times 10 = 60$
$4 \times 12 = 48$	$6 \times 12 = 72$



6 VF

6b. Here is part of a 100 square.

41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90

A common multiple of 3 and 4 has been circled. Circle the next 3.

Key Facts

$3 \times 2 = 6$	$4 \times 2 = 8$
$3 \times 5 = 15$	$4 \times 5 = 20$
$3 \times 10 = 30$	$4 \times 10 = 40$
$3 \times 12 = 36$	$4 \times 12 = 48$



6 VF

Common Multiples

Common Multiples

7a. Circle the common multiples of 6 and 8.

104
56
144

84
96
90

120
108
72



6 VF

7b. Circle the common multiples of 4 and 7.

92
128
140

84
56
72

98
100
112



6 VF

8a. True or false?

- i. The lowest common multiple of 5 and 15 is 30.
- ii. The lowest common multiple of 4.5 and 9 is 9.
- iii. 7 and 12 share the common multiple 144.



6 VF

8b. True or false?

- i. The lowest common multiple of 12.5 and 25 is 50.
- ii. The lowest common multiple of 5 and 13 is 65.
- iii. 3.5 and 7 share the common multiple 91.



6 VF

9a. Here is part of a 100 square.

11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

A common multiple of 6.5 and 13 has been circled. Circle the rest.



6 VF

9b. Here is part of a 100 square.

11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

A common multiple of 7.5 and 15 has been circled. Circle the rest.



6 VF

Varied Fluency Common Multiples

Developing

- 1a. 12
2a. False, the lowest common multiple of 6 and 8 is 24.
3a. 24, 36

Expected

- 4a. 42, 126, 84
5a. False, the lowest common multiple of 8 and 12 is 24.
6a. 60, 72, 84

Greater Depth

- 7a. 144, 96, 120, 72
8a. i. False, the lowest common multiple of 5 and 15 is 15. ii. True. iii. False, 144 is not a multiple of 7.
9a. 26, 39, 52, 65, 78, 91

Varied Fluency Common Multiples

Developing

- 1b. 20
2b. False, the lowest common multiple of 3 and 4 is 12.
3b. 30, 40

Expected

- 4b. 60, 48, 156
5b. True
6b. 60, 72, 84

Greater Depth

- 7b. 140, 84, 56, 112
8b. i. False, the lowest common multiple of 12.5 and 25 is 25. ii. True. iii. True.
9b. 30, 45, 60, 75, 90