

Varied Fluency

Step 3: Common Factors

National Curriculum Objectives:

Mathematics Year 5: (5C5a) [Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers](#)

Mathematics Year 5: (5C8a) [Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes](#)

Differentiation:

Developing Questions to support systematically finding the common factors of two numbers. Includes the common factors 1, 2, 3, 5 and 10 and use of arrays.

Expected Questions to support systematically finding the common factors of two numbers. Includes the common factors 1 – 12 and use of some arrays.

Greater Depth Questions to support finding the common factors of two numbers. Includes the common factors of up to 12 and beyond.

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

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

Common Factors

1a. Circle the common factors of 5 and 10 by systematically checking each times table.

1 2 3 5 10



VF

Common Factors

1b. Circle the common factors of 6 and 8 by systematically checking each times table.

1 2 3 5 10



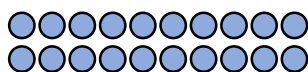
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2a. Complete the number sentences with the missing common factor.

$$\square \times 6 = 12$$



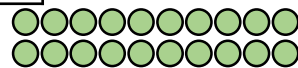
$$20 \div \square = 10$$



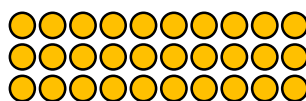
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2b. Complete the number sentences with the missing common factor.

$$\square \times 2 = 20$$



$$30 \div \square = 3$$



VF

3a. Match the pairs of numbers to their common factor. You may want to draw arrays to help you.

15 and 25 3

6 and 9 2

14 and 20 5



VF

3b. Match the pairs of numbers to their common factor. You may want to draw arrays to help you.

8 and 18 5

20 and 35 3

12 and 15 2

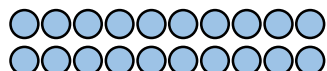


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4a. Write all the common factors for the numbers below.

10

20

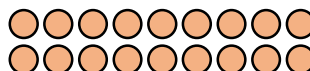


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4b. Write all the common factors for the numbers below.

15

18

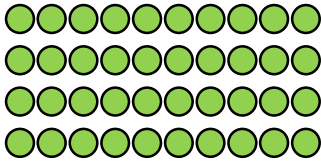


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Common Factors

5a. Circle the common factors of 8 and 40 by systematically checking each times table.

1 2 3 4 5 6 7 8 10

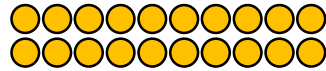


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Common Factors

5b. Circle the common factors of 12 and 20 by systematically checking each times table.

1 2 3 4 5 6 7 9 10



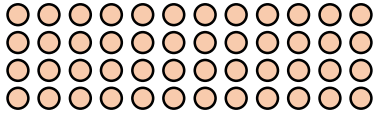
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6a. Complete the number sentences with the missing common factor.

$$\square \times 5 = 30$$



$$48 \div \square = 8$$



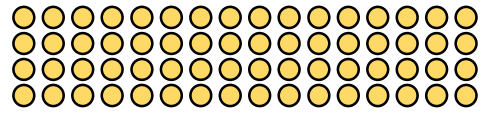
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6b. Complete the number sentences with the missing common factor.

$$\square \times 7 = 56$$



$$64 \div \square = 8$$



VF

7a. Match the pairs of numbers to their common factor. You may want to draw arrays to help you.

36 and 42

11

55 and 99

4

24 and 48

6



VF

7b. Match the pairs of numbers to their common factor. You may want to draw arrays to help you.

24 and 64

12

30 and 54

8

36 and 48

6



VF

8a. Write all the common factors for the numbers below.

16

28



VF

8b. Write all the common factors for the numbers below.

24

40



VF

Common Factors

9a. Circle the common factors of 40 and 60.

2 11 1
12 5 10
3 20 4



VF

Common Factors

9b. Circle the common factors of 28 and 42.

12 2 7
4 9 1
11 8 14



VF

10a. Complete the number sentences with the missing common factor.

$$\square \times 12 = 132$$

$$121 \div \square = 11$$



VF

10b. Complete the number sentences with the missing common factor.

$$\square \times 6 = 72$$

$$96 \div \square = 8$$



VF

11a. Match the pairs of numbers to their common factor.

84 and 108 9
26 and 52 12
72 and 144 13



VF

11b. Match the pairs of numbers to their common factor.

105 and 150 7
42 and 84 12
24 and 60 15



VF

12a. Write all the common factors for the numbers below.

48

60



VF

12b. Write all the common factors for the numbers below.

45

75



VF

Varied Fluency Common Factors

Developing

1a. 1, 5

2a. 2

3a. 15 and 25 = 5; 6 and 9 = 3; 14 and 20 = 2

4a. 1, 2, 5, 10

Expected

5a. 1, 2, 4, 8

6a. 6

7a. 36 and 42 = 6; 55 and 99 = 11; 24 and 48 = 4

8a. 1, 2, 4

Greater Depth

9a. 1, 2, 4, 5, 10, 20

10a. 11

11a. 84 and 108 = 12; 26 and 52 = 13; 72 and 144 = 9

12a. 1, 2, 3, 4, 6, 12

Varied Fluency Common Factors

Developing

1b. 1, 2

2b. 10

3b. 8 and 18 = 2; 20 and 35 = 5; 12 and 15 = 3

4b. 1, 3

Expected

5b. 1, 2, 4

6b. 8

7b. 24 and 64 = 8; 30 and 54 = 6; 36 and 48 = 12

8b. 1, 2, 4, 8

Greater Depth

9b. 1, 2, 7, 14

10b. 12

11b. 105 and 150 = 15; 42 and 84 = 7; 24 and 60 = 12

12b. 1, 3, 5, 15