N4a Factors and HCFs

Alpha Exercise 1

List all the factors of each of these numbers:

1) 1: ____

2) 2: ____ ____

3) 3: ____ ____

4) 4: ____ ____ ____

5) 8: ____ ____ ____ ____

6) 15: ____ ____ ____ ____

Alpha Exercise 2

List all the factors of each of these numbers:

1) 10: ____ ____ ____ ____

2) 6: ____ ____ ____ ____

3) 9: ____ ____ ____

4) 17: ____ ____

5) 12: ____ ____ ____ ____ ____ ____

6) 24: ____ ____ ____ ____ ____ ____ ____ ____

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β

Beta Exercise 1

List all the factors of each of these numbers:

1) 36: ____ ____ ____ ____ ____ ____ ____ ____ ____

2) 45: ____ ____ ____ ____ ____ ____

3) 57: ____ ____ ____ ____

4) 43: ____ ____

5) 39: ____ ____ ____ ____

6) 84: ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____ ____

Beta Exercise 2

List all the factors of each of these numbers:

1) 18

2) 20

3) 27

4) 75

5) 63

6) 54

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Gamma Exercise 1

Find the highest common factor of each of these pairs of numbers:

1) 4 and 18

2) 15 and 20

3) 9 and 27

Gamma Exercise 1 (contd.)

Find the highest common factor of each of these pairs of numbers:

1) 50 and 75

2) 18 and 63

3) 54 and 90

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Gamma Exercise 2

Find the highest common factor of each of these sets of numbers:

1) 3 and 14

2) 25 and 15

3) 21, 35 and 42

Gamma Exercise 2 (contd.)

Find the highest common factor of each of these sets of numbers:

4) 55 and 77

5) 10, 15 and 25

6) 210 and 525

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Explain the mistake

Sophia writes:

28 is a factor of 7 because 7 goes 4 times into 28.

Sophia's sentence is incorrect. How would you correct it?

Exam-style question 1

(a) Write all the factors of 56.

(b) Find the highest common factor of 56 and 28.

(c) Find the highest common factor of 56, 28 and 21.

Exam-style question 2

The highest common factor of 42 and 105 is 21.

Write $\frac{42}{105}$ as a fraction in its simplest form.