

α

Alpha Exercise 1

List all the factors of each of these numbers:

- 1) 1: ___
- 2) 2: ___ ___
- 3) 3: ___ ___
- 4) 4: ___ ___ ___
- 5) 8: ___ ___ ___ ___
- 6) 15: ___ ___ ___ ___

α

Alpha Exercise 2

List all the factors of each of these numbers:

- 1) 10: ___ ___ ___ ___
- 2) 6: ___ ___ ___ ___
- 3) 9: ___ ___ ___
- 4) 17: ___ ___
- 5) 12: ___ ___ ___ ___ ___
- 6) 24: ___ ___ ___ ___ ___ ___

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: ___ ___ ___ ___ ___ ___ ___ ___

β

Beta Exercise 2

List all the factors of each of these numbers:

- 1) 18
- 2) 20
- 3) 27
- 4) 75
- 5) 63
- 6) 54



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
- 4) 50 and 75
- 5) 18 and 63
- 6) 54 and 90



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
- 4) 55 and 77
- 5) 10, 15 and 25
- 6) 210 and 525



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.