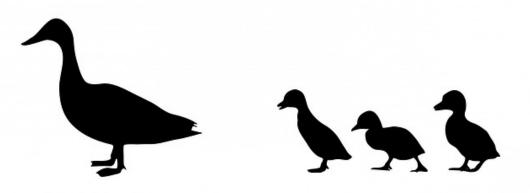
Examples



- List all the **factors** of 12 (a)
- List all the factors of 18 (b)
- List all the common factors of 12 and 18 (C)
- What is the **highest common factor** of 12 and 18? (d)
- List all the factors of 7 (e)
- What is the **highest common factor** of 7 and 12?



Is 16 a factor of 8?

- (a) Yes
- (b) No



Is 8 a factor of 8?

(a) Yes

(b) No



Is 4 a factor of 8?

- (a) Yes
- (b) No



Is 24 a factor of 1?

- (a) Yes
- (b) No



Is 1 a factor of 711?

- (a) Yes
- (b) No



Alpha Exercise 1

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



Alpha Exercise 2

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

3

Beta Exercise 1

- 3) 57: ____ ____
- 4) 43: ____
- 5) 39: _____
- 6) 84: ___ __ __ __ ___ ____

Beta Exercise 2

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

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.