The Math Dugout - Worksheet

FACTOR TREES

Useful Videos - **https://youtu.be/vHeM8KN_caw**

$60 = 5 \times 3 \times 2 \times 2$
$= 2^2 \times 3 \times 5$
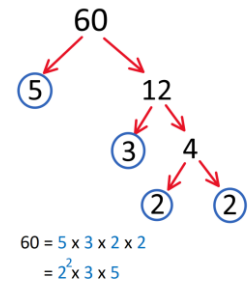
EXERCISE 1 – Decide if the numbers below are prime. Answer yes or no. If your answer is no, give a reason.

- (a) 3

- (b) 6

- (c) 5

- (d) 10

- (e) 13

- (f) 18

EXERCISE 2 – List all the factors belonging to the numbers below. Highlight any factors which could be considered as "prime factors".

- (a) 6

- (b) 8

- (c) 4

- (d) 10

- (e) 24

- (f) 64

EXERCISE 3 – Create a factor tree for each number below, and then express that number as a "product of its prime factors" based off your factor tree. Be sure to use index notation!

- (a) 10

- (b) 12

- (c) 16

- (d) 56

- (e) 64

- (f) 512