

PRIMES TO 100



GET READY



- 1) Find all the factors of 32
- 2) Write the first 6 multiples of 6
- 3) Write the first 6 multiples of 4
- 4) Write the first 3 common multiple of 4 and 6

1) Find all the factors of 32

1, 2, 4, 8, 16, 32

2) Write the first 6 multiples of 6

6, 12, 18, 24, 30, 36

3) Write the first 6 multiples of 4

4, 8, 12, 16, 20, 24

4) Write the first 3 common multiple of 4 and 6

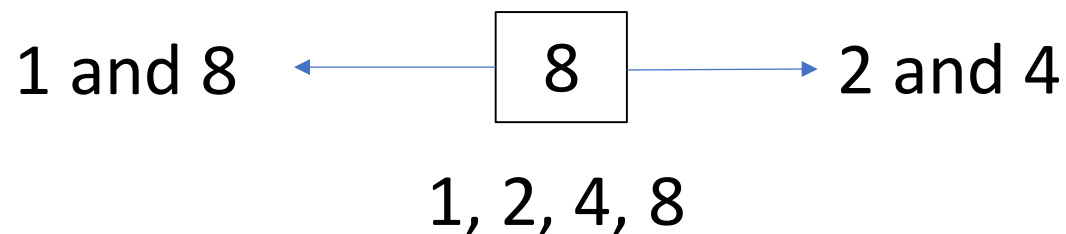
12, 24, 36

LET'S LEARN

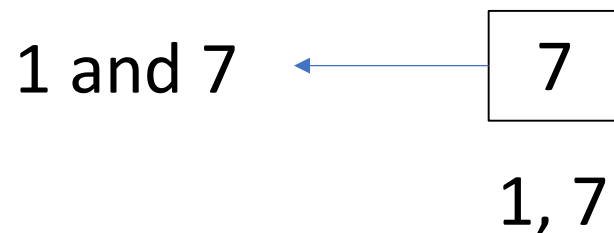


What do you notice?

Find the factors of 8:




Find the factors of 7:

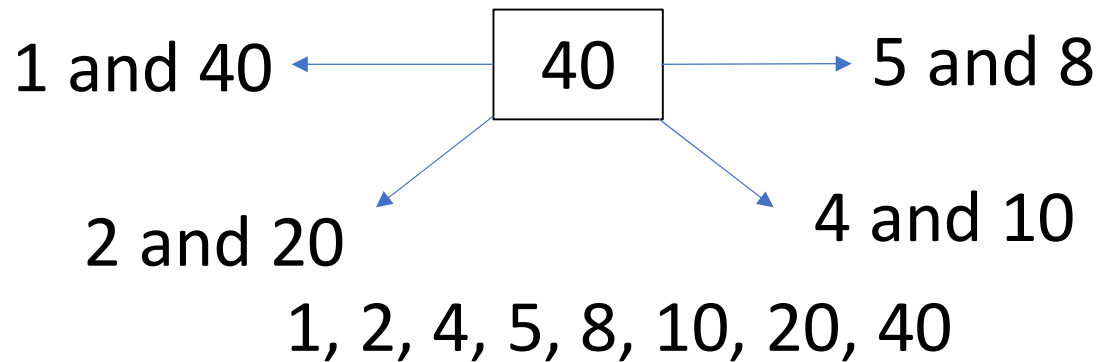
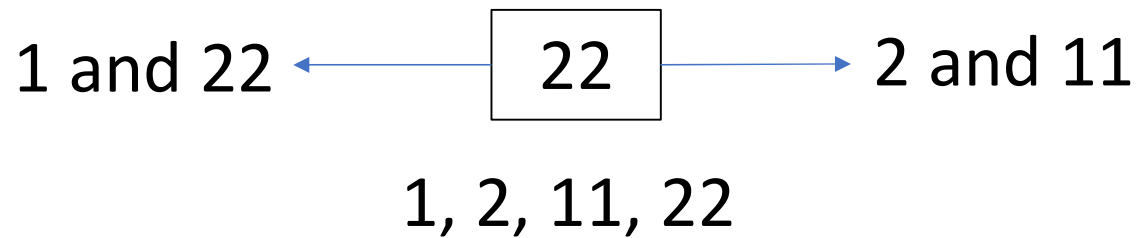
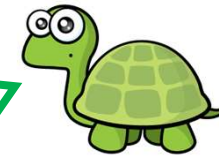


Find the factors of 1:



Have a think 

All prime numbers must be odd because all even numbers will also have a factor of 2



Have a think



All prime numbers must be odd because all even numbers will also have a factor of 2



1 and 2



2

1, 2

2 is the only even prime number

YOUR TURN

Have a go at questions
1 - 4 on the worksheet

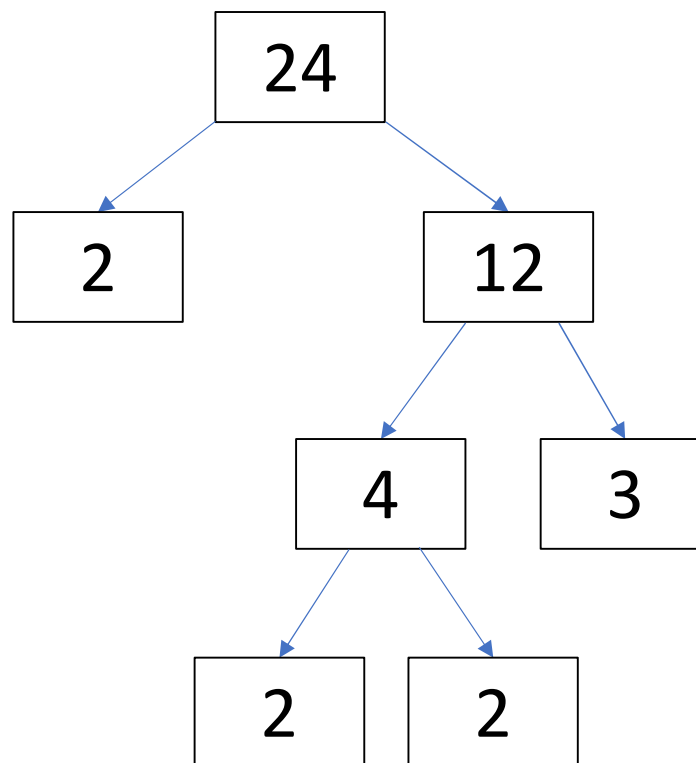


Find all the prime numbers between 1 and 30

| | | | | | | | | | |
|----|---|----|---|---|---|----|---|----|---|
| × | 2 | 3 | × | 5 | × | 7 | × | × | × |
| 11 | × | 13 | × | × | × | 17 | × | 19 | × |
| × | × | 23 | × | × | × | × | × | 29 | × |

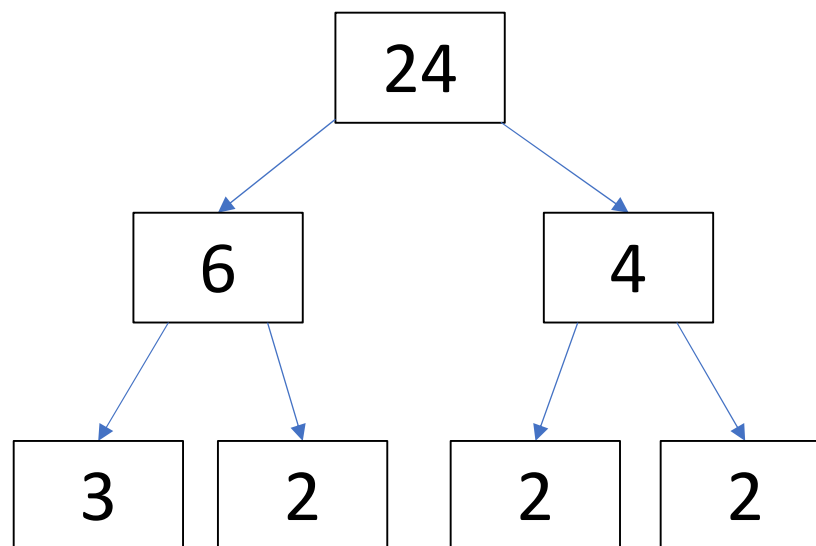
2, 3, 5, 7, 11, 13, 17, 19, 23, 29

Find all the prime factors of 24



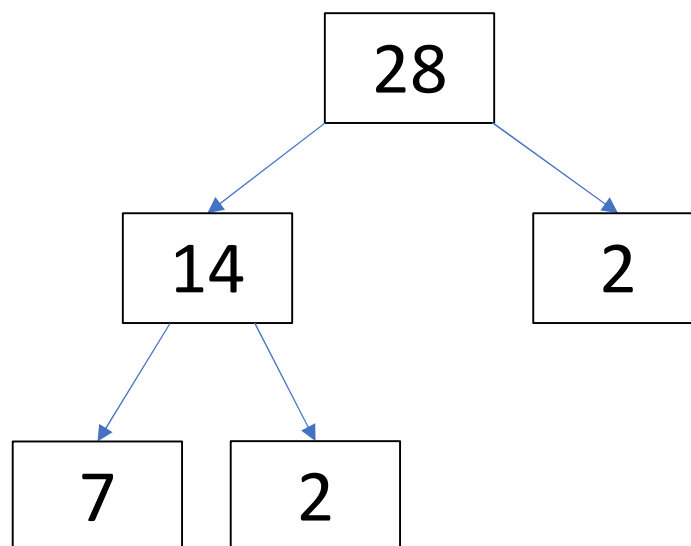
A factor which is also a prime number is called a prime factor

Find all the prime factors of 24




$$3 \times 2 \times 2 \times 2 = 24$$

Find all the prime factors of 28























$$7 \times 2 \times 2 = 28$$

Have a think 

 +  = 30

Have a think



| | | | | | | | | | |
|---|---|----|---|--|---|---|---|---|---|
|  | 2 | 3 |  | 5 |  | 7 |  |  |  |
| 11 |  | 13 |  |  |  | 17 |  | 19 |  |
|  |  | 23 |  |  |  |  |  | 29 |  |

$$7 + 23 = 30$$

$$11 + 19 = 30$$

$$13 + 17 = 30$$

 and  are both prime numbers

How many different solutions are there?

YOUR TURN

Have a go at the rest of
the worksheet

