(a) Fill out the Venn Diagram below using the number given.

Factors of 20   Prime Numbers
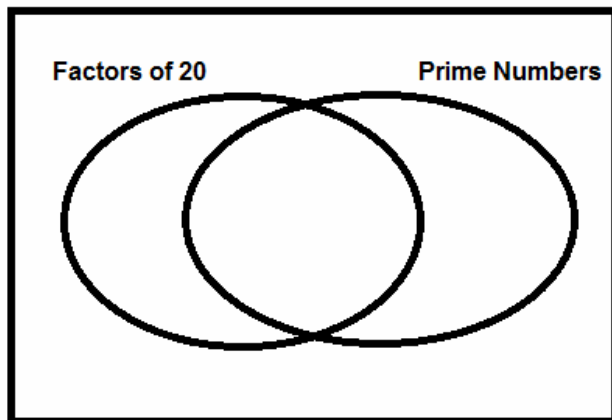
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

(b) Explain what the numbers 3,7,11,13,17 and 19 represent in the Venn Diagram.
(c) One number is chosen at random from the Venn Diagram. Find the probability that it's prime and a factor of 20.
(d) One number is chosen at random from the Venn Diagram. Given that the number is a prime number, find the probability that it's a factor of 20.
(e) A number is chosen at random. Find the probability that it's a square number and a factor of 20.
(f) A number is chosen at random from the Venn Diagram. Find the probability it's a factor of 20 and a multiple of 2.
(g) Write down the ratio of Prime Numbers to Factors of 20 in the Venn Diagram.
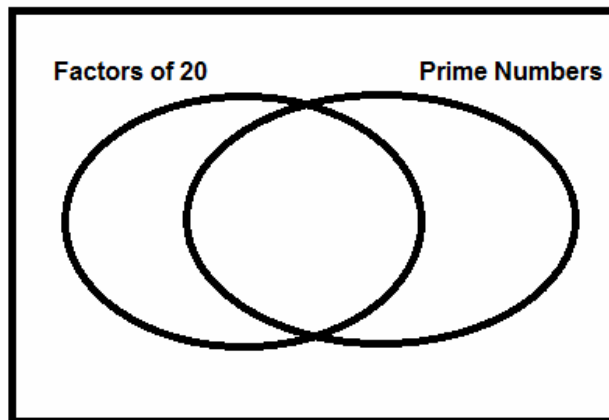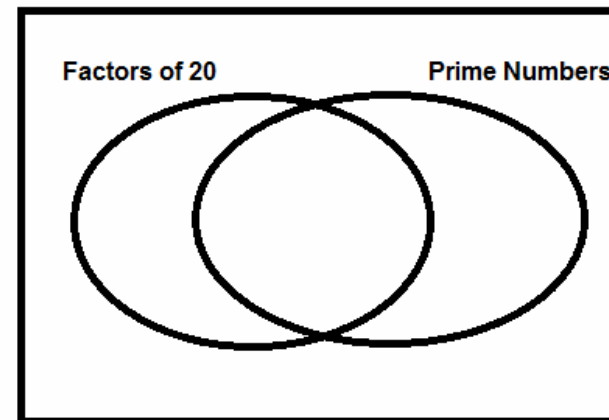(h) Add the number 40 to the Venn Diagram.
(i) Complete the sentence:
"40 is a _____ of 20 and a _____of 80"
(j) Find the HCF of all of the prime numbers.