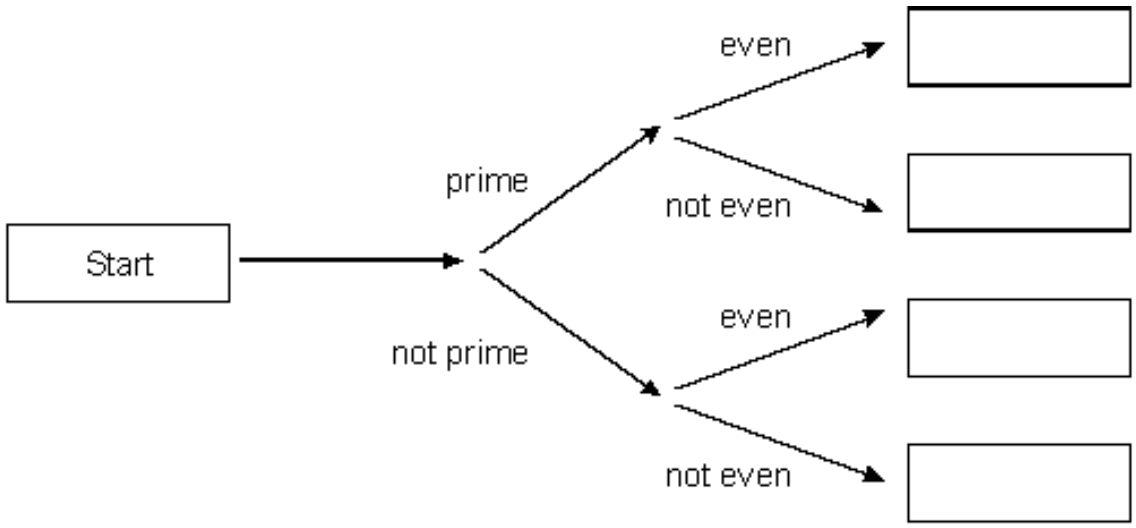
1. Write the missing numbers.

Factors of 20 = {1, _____ , _____ , _____ , _____ , 20}

2. Here is a diagram for sorting numbers.
Write these three numbers in the correct boxes.
You may not need to use all of the boxes.

9 17 20




3. Circle the **two** prime numbers.

29 39 49 59 69

4. Emma thinks of two **prime** numbers.
She adds the two numbers together and gets 36.
Which two prime numbers could Emma be thinking of?
Can you find all four pairs?

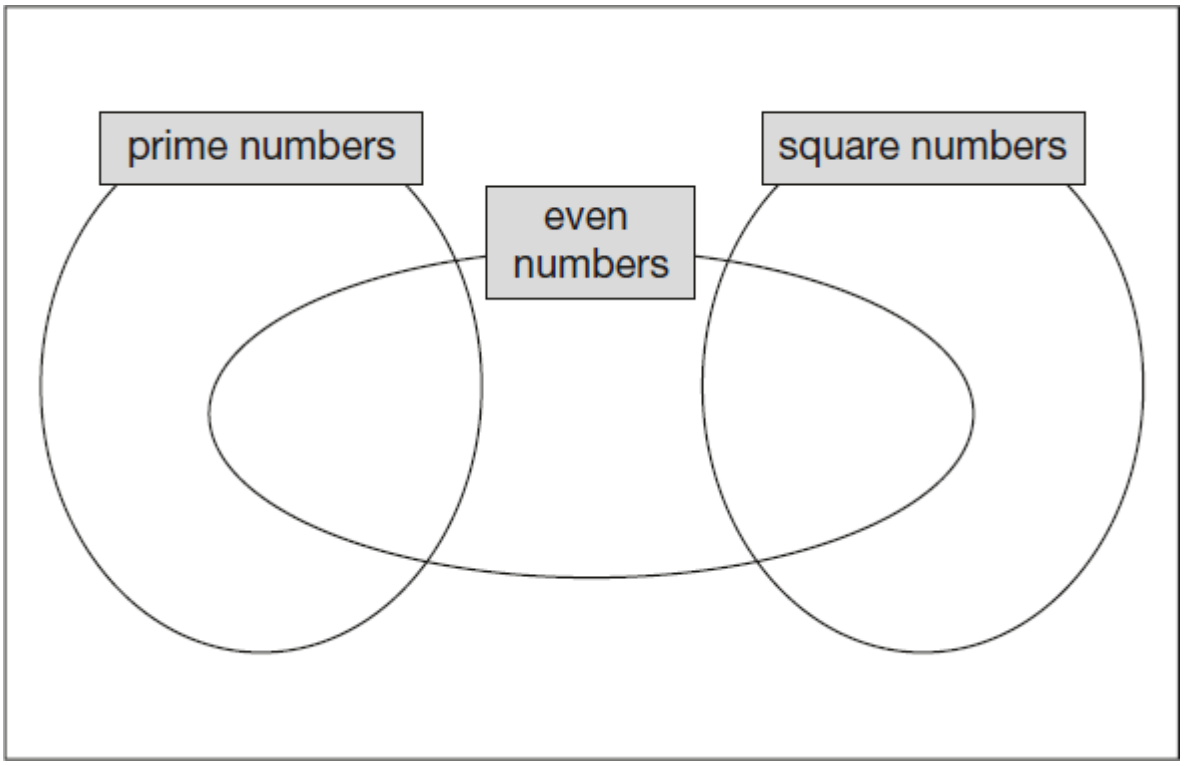
_____

5. Write all the factors of 30 which are **also** factors of 20

_____

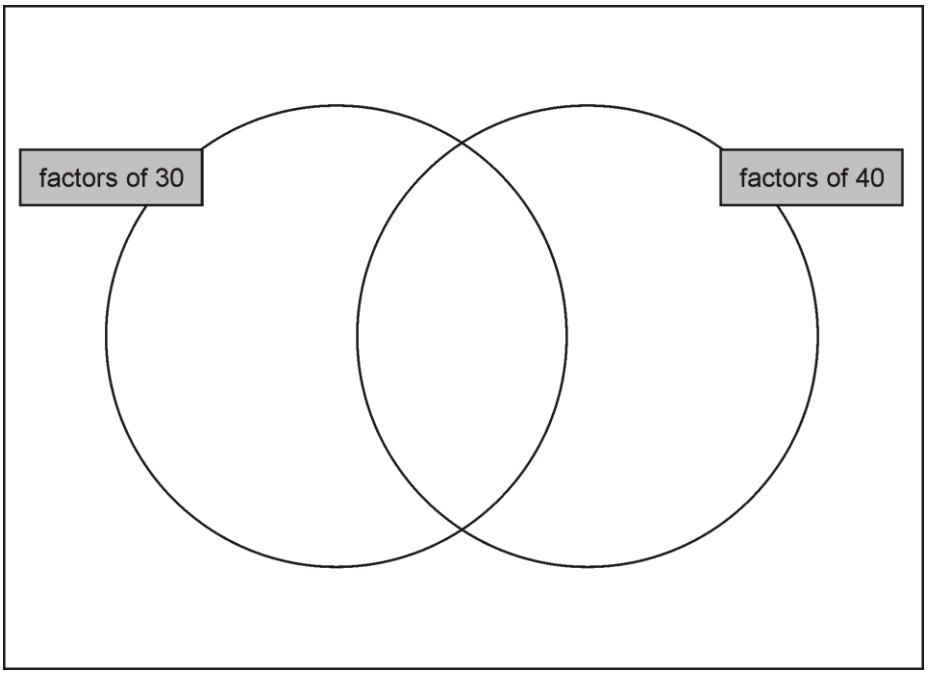
6. Write each number in its correct place on the diagram.

16 17 18 19




7. Write these numbers in the correct places on the diagram.

**5 6 7 8**



8. Complete this sentence.
Every number with a factor of **10** must also have factors of

☐ and ☐ and ☐

9. The factors of 11 sum to 12
Write the other number whose factors sum to 12

☐

10. Here are three digit cards

| 1 | 5 | 6 |
|---|---|---|

Choose two cards each time to make the following two-digit numbers.
The first one is done for you.

| | | |
|---|---|---|
| an even number | 5 | 6 |
| a prime number | | |
| a common factor of 60 and 90 | | |
| a common multiple of 5 and 13 | | |

11. This three-digit number has **2** and **7** as **factors**.

2 9 4

Write another **three-digit** number which has **2** and **7** as **factors**.

☐☐☐

12. Here are four number cards.


Which two number cards are **factors of 42**?

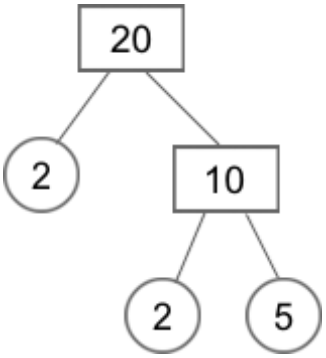

13. Write **all** the numbers between 50 and 100 that are **factors of 180**

14. Chen chooses a **prime** number.
He multiplies it by 10 and then rounds it to the nearest hundred.
His answer is **400**.

Write **all** the possible prime numbers Chen could have chosen.

_____

15. Any number can be written as a product of its prime factors,
for example:




$20 = 2 \times 2 \times 5$

Write 90 as a product of its prime factors.