

## Whole numbers probability – Multiples and Factors

Name: \_\_\_\_\_

Answer the following questions in your book:

1. Write down all the numbers from 20 to 40 and study them carefully.
  - a) How many numbers did you write down?

\*The chance or probability that a type of number is chosen is the total of that type of number divided by all the numbers available. For example, the chance of choosing 20 will be 1 twenty out of 20 choices or  $\frac{1}{20}$ .

- b) What is the chance of choosing an even number?
  - c) What is the chance of choosing an odd number?
  - d) What is the chance of choosing a multiple of 4?
  - e) What is the chance of choosing a multiple of 7?
  - f) What is the chance of choosing a factor of 50?
  - g) What is the chance of choosing a factor of 120?
  - h) What is the chance of choosing a number less than 25?
  - i) What is the chance of choosing a number less than 10?
  - j) What is the chance of choosing a number greater than 43?
  - k) What is the chance of choosing a prime number?
2. Write down all the factors of 560 and study them carefully before answering the following questions:
    - a) How many factors of 560 are there?
    - b) What is the chance of choosing an even number?
    - c) What is the chance of choosing an odd number?
    - d) What is the chance of choosing a multiple of 10?
    - e) What is the chance of choosing a multiple of 7?

