

ERROR INTERVALS

Task 1 – Write the error interval for each of the following numbers.

- 1) A number x is 48, correct to the nearest unit. Write the error interval.
- 2) A number y is 120, correct to the nearest 10.
- 3) A number m is 700, correct to the nearest 100.
- 4) A number x is 4000, correct to the nearest 1000.
- 5) A number p is 85, correct to the nearest 5.
- 6) A number t is 260, correct to the nearest 20.
- 7) A number u is 9000, correct to the nearest 500.
- 8) A number x is 72, correct to the nearest 2.
- 9) A number r is 14, correct to the nearest unit.
- 10) A number x is 450, correct to the nearest 50.
- 11) A number w is 6.4, correct to 1 decimal place.
- 12) A number n is 2.37, correct to 2 decimal places.
- 13) A number j is 1.406, correct to 3 decimal places.
- 14) A number y is 0.9, correct to 1 decimal place.
- 15) A number h is 12.08, correct to 2 decimal places.
- 16) A number q is 7, correct to the nearest unit.
- 17) A number k is 0.54, correct to 2 decimal places.
- 18) A number s is 9.302, correct to 3 decimal places.
- 19) A number a is 15, correct to the nearest unit.
- 20) A number e is 3.0, correct to 1 decimal place.
- 21) A number j is 900, correct to 1 significant figure.
- 22) A number o is 43, correct to 2 significant figures.
- 23) A number d is 0.007, correct to 1 significant figure.
- 24) A number x is 6200, correct to 2 significant figures.
- 25) A number x is 5.8, correct to 2 significant figures.
- 26) A number y is 0.46, correct to 2 significant figures.

27) A number m is 78000, correct to 2 significant figures.

28) A number b is 3.07, correct to 3 significant figures.

29) A number v is 0.500, correct to 3 significant figures.

30) A number c is 250, correct to 2 significant figures.

31) A number s is written as 3.4 when truncated to 1 decimal place. Write the error interval.

32) A number x is written as 7.12 when truncated to 2 decimal places.

33) A number p is written as 0.008 when truncated to 3 decimal places.

39) The mass of a coin is 8 g, correct to 1 significant figure. Write the error interval for the mass.

40) The average speed of a journey is 45 km/h correct to the nearest 5. Write the error interval for the speed.

Task 2

34) A piece of string is measured as 15 m, correct to the nearest metre. Write the error interval for the length of the string.

35) The time of a race is recorded as 42 minutes, correct to the nearest minute. Write the error interval for the time taken.

36) The weight of a parcel is 4.8 kg, correct to 1 decimal place. Write the error interval for the weight of the parcel.

37) The length of a plank is 2.36 m, correct to 2 decimal places. Write the error interval for the length of the plank.

38) A school bus journey is said to take 30 minutes, correct to the nearest 5 minutes. Write the error interval for the time of the journey.