02 - Numbers - Question Pack

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This question pack is part of a series of Numerical Reasoning Test (NRT) preparation resources which you can find at www.numericalreasoningtestsuccess.com.

These resources are organised into a number of different topics. For each topic, there is a set of notes and a question pack (such as this one).

Each set of notes explains a set of skills, with example questions for each one. Within the question pack for the same topic, you can find practice questions (with answers) for each of these skills.

I advise that you work through the sets of notes in order. Within each set of notes, start by reading the explanation of the first skill. Then go to that skill in the question pack and complete the practice questions. Only once you have mastered a skill should you move onto the next one. And only once you have mastered all the skills in a set of notes should you move on to the next set of notes. This approach is called *mastery learning*.

If you find any errors in this document (including mathematical errors, typos or any other mistakes), please let me know at contact@numericalreasoningtestsuccess.com.

Questions

You may use a calculator.

The answers can be found at the end of this document.

Round a given number to a given number of decimal places.

1) Round 325.875 to 2 dp.

2) What is 65.496 to 1 dp?

3) Round 54.2653 to 3 dp.

4) What is 34.97 to 1 dp?

5) What is 453.996 to 2dp?

Round a given number to a given number of significant figures.

1) What is 67.8732 to 3 sf?

2) 0.0004502 to 3 sf?

3) What is 34,565 to 2 sf?

4) What is 5.00625 to 3 sf?

5) What is 0.00040997883 to 3 sf?

Calculate the difference between two numbers.

1) What is the difference between 34,556 and 29,873?

2) What is the difference between 1093.276 and 1644.78?

3) Calculate the difference between 65.3 and -108.7.

4) What is the difference between -99.99 and 0.01?

5) What is the difference between -2503 and -1476?

Given the amount of some resource available, and the amount of resource needed to obtain one item, find the number of items that can be obtained.

1) A first class stamp costs 85p. Alex has £5.68. How many first class stamps can she buy?

2) A teacher is making revision booklets for their students. Each revision booklet uses 13 sheets of paper. If the teacher has 1200 sheets of paper, how many revision booklets can they make?

3) Brian is riding his bike. He is cycling laps of a route which starts and ends at his house. Each lap takes him 17 minutes. He has an hour and ten minutes available to cycle. What is the maximum number of laps he can cycle and end up back at his house?

4) A hospital ward wants to hire more nurses. Each of the new nurses will have a salary of £24,907. If £70,000 of the ward's annual budget has been allocated to paying the new nurses, how many new nurses can it hire?

5) A game requires teams of exactly 4 players. There is no limit to how many teams can play. A group of 30 friends want to play the game. How many teams can they have?

Answers

Round a given number to a given number of decimal places.

1. 325.88

2. 65.5

3. 54.265

4. 35.0

5. 454.00

Round a given number to a given number of significant figures.

1. 67.9

2. 0.000450

3. 35,000

4. 5.01

5. 0.000410

Calculate the difference between two numbers.

1. 4683

2. 551.504

3. 174

4. 100

5. 1027

Given the amount of some resource available, and the amount of resource needed to obtain one item, find the number of items that can be obtained.

1.

    6

2.

    92

3.

    4

4.

    2

5.

    7