Name: Date:

**Chapter 3 Test** Page 1

|  |  |
| --- | --- |
| **Month** | **Number of signatures** |
| January | 2896 |
| February | 4032 |
| March |  |

**Signatures on Petition**

1.**Colton hopes to get 10 000 signatures by March 31**

**on a petition that opposes a**

**new shopping centre in town**.

1. About how many more

signatures are needed? Explain how you estimated.

1. . Calculate the actual: (show all of your work)

2896 + 4032 + = 10 000

2. a) **A truck can safely carry 4000 kg, Can the truck carry these crates safely? First estimate then calculate.**

b) Explain yes or no and explain why:

1207 kg

2491 kg

558 kg

3. **Estimate to place the decimal point in each sum. Show your work for one of the answers.**

**a)** 2.59 + 1.33 = 392 **c)** 0.972 + 0.216 + 0.304 = 1492

**b)** 32.69 + 15.18 = 4787 **d)** 0.5 + 7.49 + 6.998 = 14988

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**4. Calculate. Show your calculations.**

**a)** 3.824 + 1.219 **c)** 5.117 + 5.8

**b)** 0.683 + 0.149 **d)** 0.594 + 8.21

5**. During a science experiment, Gabrielle measured the masses of different substances and their containers. What is the mass of each substance without its container? Explain how you know that your answers are reasonable. (Calculate by subtracting then estimate, show all your work)**

Mass of Substance and Its Container

|  |  |  |
| --- | --- | --- |
| Substance | Mass of substance with container (kg) | Mass of container (kg) |
| water | 0.832 | 0.261 |
| salt | 0.137 | 0.07 |
| sugar | 0.089 | 0.063 |

6. **Calculate. Estimate to show your answer is reasonable. (show your work)**

a) 12 - 7.499= c) 8.492 - 2.8=

b) 9.451 - 0.489 = d) 7.4 - 3.126=

7. **Estimate to place the decimal point in each difference. Show your work.**

**a)** 18 - 5.932 = 12068 **c)** 7 - 2.198 = 4802

**b)** 35 - 6.9 = 281 **d)** 2 - 0.117 = 1883