This test contains negative numbers, fractions, and decimals. We call these “Real Numbers”. You may use a calculator and a single-sided memory aid. You must show your work for all questions. Neat work will be marked on certain questions.

**Question 1 (12 points + 1 for neatness):**

1. You are playing baseball outside and you break your neighbour’s window. To pay for the damage, you agree to pay them $122.75 per week for the next 8 weeks. If you only have $500, how much money will you be missing to pay them after the 8 weeks?
2. A friend of yours offers to pay $\frac{3}{7}$ of the weekly payments. What amount does your friend pay every week? What is the total amount that your friend will pay after 8 weeks?

**Question 2 (4 points):** Perform the following operation. You do not need to show your work for this question. You must explain, in words, how you got your answer.

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**Questions 3 (8 points + 1 for neatness):**

1. It was -28oC on Monday. The temperature went up by 17oC today. What is today’s temperature?
2. Tomorrow, the temperature will go down by 8oC compared to Monday. What will the temperature be tomorrow?

**Question 4 (4 points + 1 for neatness):** Pythagoras was born in 582 BC. Isaac Newton was born in 1643 AD. How many years apart were they born?

**Question 5 (2 point +1 for neatness):** How would you explain the following problem to a student in grade 2?

8 – 10 =

**Question 5 (14 points + 2 for neatness):** Perform the following chains of operations. Show each step. Round your final answer to the nearest hundredth and then write it as a fraction.

7.18 – [4.6 $÷$ (-1.5 + 0.1)] =

-7.2 – [-4 - 3.8 X (-1.2 + 0.8)] =