



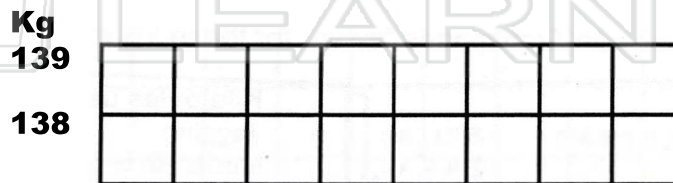
Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

Archimedes has been on his diet for eight weeks now and has recorded his progress in his notebook.

Weight at the end of each week:

Week 1	138 kg	Week 5	132.5 kg
Week 2	136 kg	Week 6	131 kg
Week 3	136.5 kg	Week 7	132.5 kg
Week 4	134 kg	Week 8	130 kg

Draw a graph showing Archimedes' weight loss below:



**PREVIEW**

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## How?

It looks like Archimedes lost eight kgs in the eight weeks as  $138 - 130$  equals 8. In fact Archimedes lost more than eight kgs. Explain how he did this.

1. What is the total weight loss for the 8 week period? .....
2. In which week did Archimedes lose the most amount of weight? .....
3. On average how much weight has Archimedes been losing each week? .....
4. If Archimedes continues at this rate how long will it be before he reaches his target weight of 75 kg?.....



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

Archimedes is going to his daughter Angel's wedding in eight months time. The wedding date is exactly 40 weeks away. Angel has asked him to give her away at the wedding and Archimedes thinks it would be worth reaching his goal before the wedding so that he can celebrate after.

1. What weekly weight loss average does he need to maintain if he is to reach his target for Angel's wedding? .....

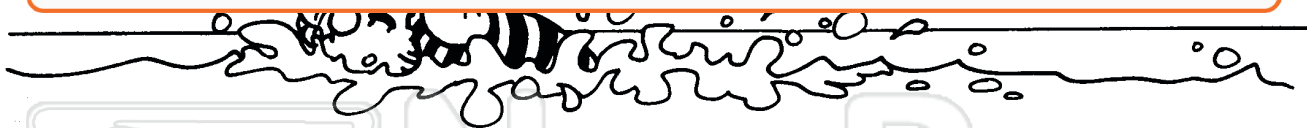
.....

2. Archimedes has been on the diet for another eight weeks. He has lost another 14 kilos and is down to 116 kg. He has discovered that since taking up swimming, he has started to increase



**PREVIEW**

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**Challenge:**  
Skinny Galileo has been teasing Archimedes about his weight and has been boasting about his own weight loss. He claims to have lost 12 kilos in the last six months. Mrs. Galileo just laughs and says "Sorry Archimedes but he is telling the truth!". Archimedes has known Galileo for many years and has never seen him be anything but a size 12 weighing about 75 kg. How can this be?



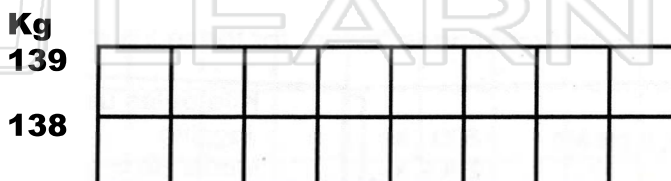
Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

Archimedes has been on his diet for eight weeks now and has recorded his progress in his notebook.

Weight at the end of each week:

Week 1	138 kg	Week 5	132.5 kg
Week 2	136 kg	Week 6	131 kg
Week 3	136.5 kg	Week 7	132.5 kg
Week 4	134 kg	Week 8	130 kg

Draw a graph showing Archimedes' weight loss below:



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## How?

It looks like Archimedes lost eight kgs in the eight weeks as  $138 - 130$  equals 8.

In fact Archimedes lost more than eight kgs. Explain how he did this.

1. What is the total weight loss for the 8 week period? 10 kgs
2. In which week did Archimedes lose the most amount of weight? Weeks 4 and 8
3. On average how much weight has Archimedes been losing each week? 1.25 kgs
4. If Archimedes continues at this rate how long will it be before he reaches his target weight of 75 kg? 44 weeks



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

Archimedes is going to his daughter Angel's wedding in eight months time. The wedding date is exactly 40 weeks away. Angel has asked him to give her away at the wedding and Archimedes thinks it would be worth reaching his goal before the wedding so that he can celebrate after.

1. What weekly weight loss average does he need to maintain if he is to reach his target for Angel's wedding? **1.375 kgs a week, or better still 1.4 kgs.**

2. Archimedes has been on the diet for another eight weeks. He has lost another 14 kilos and is down to 116 kg. He has discovered that since taking up swimming, he has started to increase



## PREVIEW

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### Challenge:

Skinny Galileo has been teasing Archimedes about his weight and has been boasting about his own weight loss. He claims to have lost 12 kilos in the last six months. Mrs. Galileo just laughs and says "Sorry Archimedes but he is telling the truth!". Archimedes has known Galileo for many years and has never seen him be anything but a size 12 weighing about 75 kg. How can this be? **One week he gains a kg and the next week he loses a kg. Over 6 months he has gained and lost 12 kgs.**