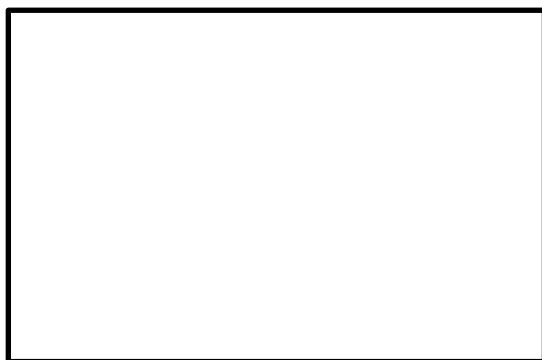7. Consider the objects below, a metre stick and a baseball bat. Use an arrow to indicate where you might place your finger to balance the object. Briefly explain why you chose that location. [3 marks]

8. Draw an example of a **pure substance** and a **mixture** as indicated in the appropriate box below. [2 marks]

Pure Substance:

Mixture:

Total:

Student's Name: _____
Please Print

_____ / 25

Instructions:
- Use the spaces on this paper for rough work.
- You may use pen or pencil.
- Be sure to show all calculations, where applicable.
- **There are 8 questions on 4 pages in this section.**

1. The Old MacDonald organic farm has 250 animals. 34% of the animals are chickens. How many of the animals are **not** chickens? **Show your work.** [2 marks]

Answer: _____

2. A cookie recipe requires 2 eggs for every 3 cups of flour. Fadi is making 500 cookies which require 96 cups of flour. How many eggs will Fadi need? **Show your work.** [2 marks]
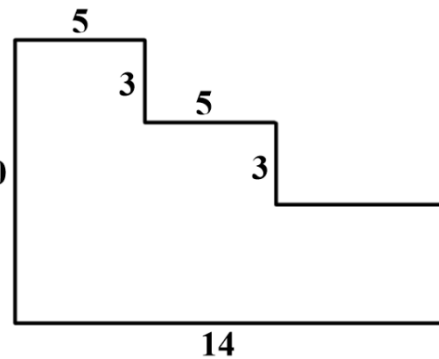
Answer: _____

3. Yasmin sells ice cream cones at the local park. She is paid $50.00 for a day's work and she get to keep $1.50 for each cone she sells. She pays her little brother $15.00 to help her set up in the morning. Write an expression to represent the money she earns in one day if she sells x cones? **Show your work.** [2 marks]

Answer: _____

PLEASE TURN OVER

4. Adam leaves his house and walks $\frac{7}{8}$ km toward the north. He turns around and walks $\frac{3}{4}$ km back toward his house. He turns around again and walks $\frac{1}{6}$ km toward the north. How far is he from home? **Provide your exact answer in the form of a fraction. Show your work**. [3 marks]

Distance from home = _____

5. The diagram below shows the side of a building, with measurements given in metres.

a. If this side of the building needed to be repainted, determine the total area that needs to be painted.

You must clearly show your steps and your reasoning. [3 marks]

```
    5
 ┌─────┐
 │     │ 3
 │     └───┐
 │       5 │
10│         │ 3
 │         └──────┐
 │                │
 │                │
 └────────────────┘
        14
```

The Area is = _____

b. If the paint used costs \$2.75/m², how much will it cost to paint the side of the building? **Show your work**. [1 mark]
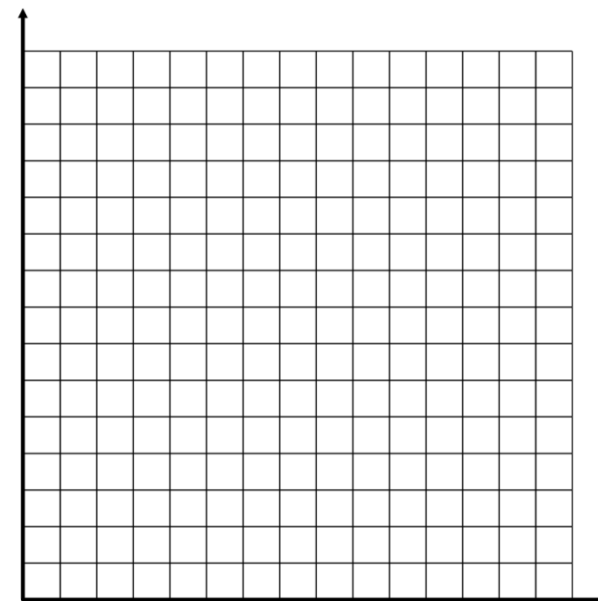
The Cost is = _____

6. 200 mL of water is poured into a graduated cylinder. As time goes on, the water evaporates. Sumaya observed and recorded the volume of water left in the cylinder at the times shown in the table below.

Number of hours elapsed	Volume of Water
1	185
3	145
4	115
7	65
9	20

a. Use **points** on the graph below to illustrate the data found in the table above. Be sure to fully label the graph. [4 marks]

Title: _____

b. Estimate the volume of water after 5.5 hours. Show your reasoning by referring to the graph or to the table. [2 marks]

c. About how long will it take for there to be no water left in the cylinder? You may refer to the graph or to the table. [1 mark]

PLEASE TURN OVER