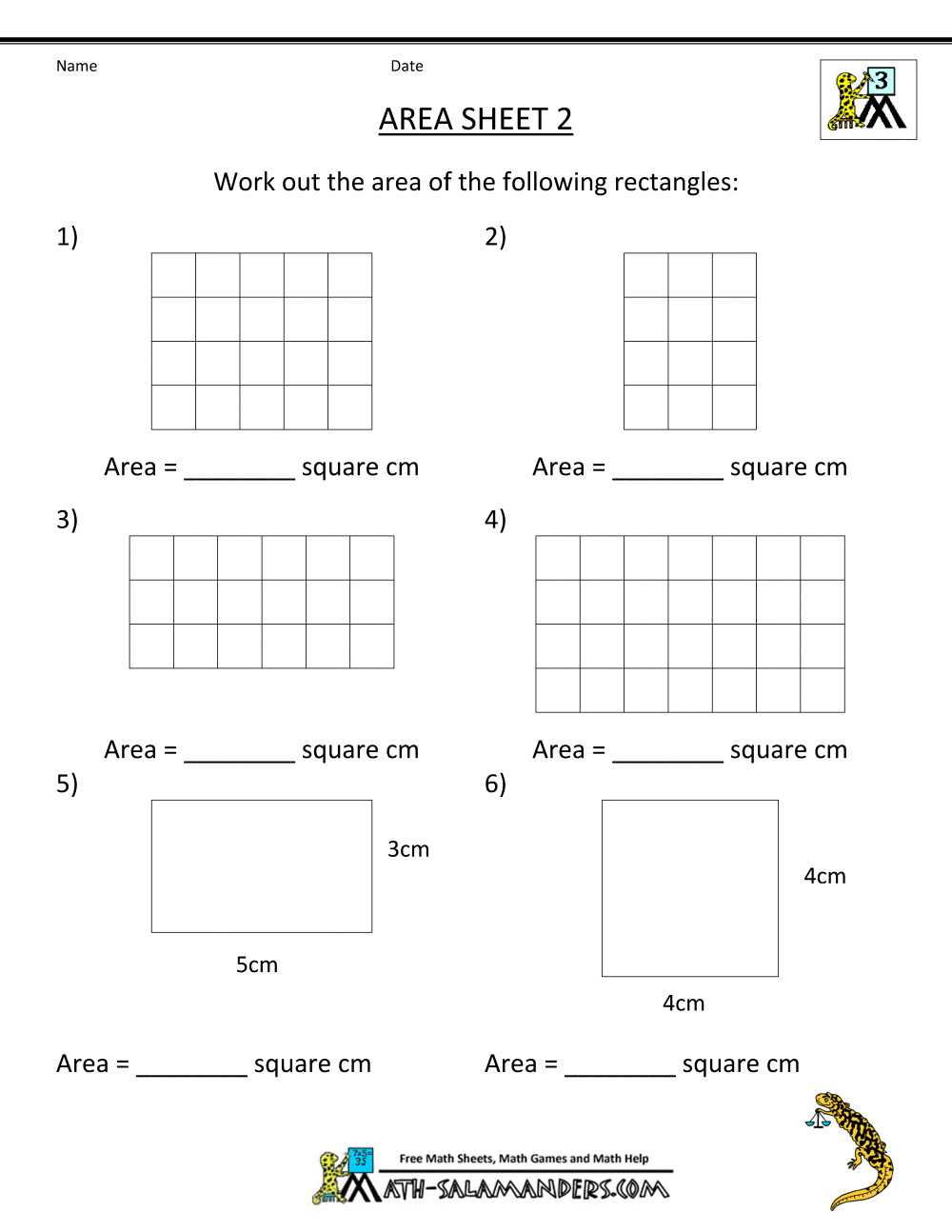
|  |  |
| --- | --- |
| **GRADE 7** | **MARK ALLOCATION:** 50 |
| **FORM OF ASSESSMENT:** Investigation | **CONCEPT/TOPIC:** Area and Perimeter of 2D shapes, Surface area of 3D objects |
| **DATE: .............................** | **TIME ALLOCATION:** 60 minutes |

**ACTIVITY 1**

1.1.1

 (2)

**Side**

Perimeter **√**

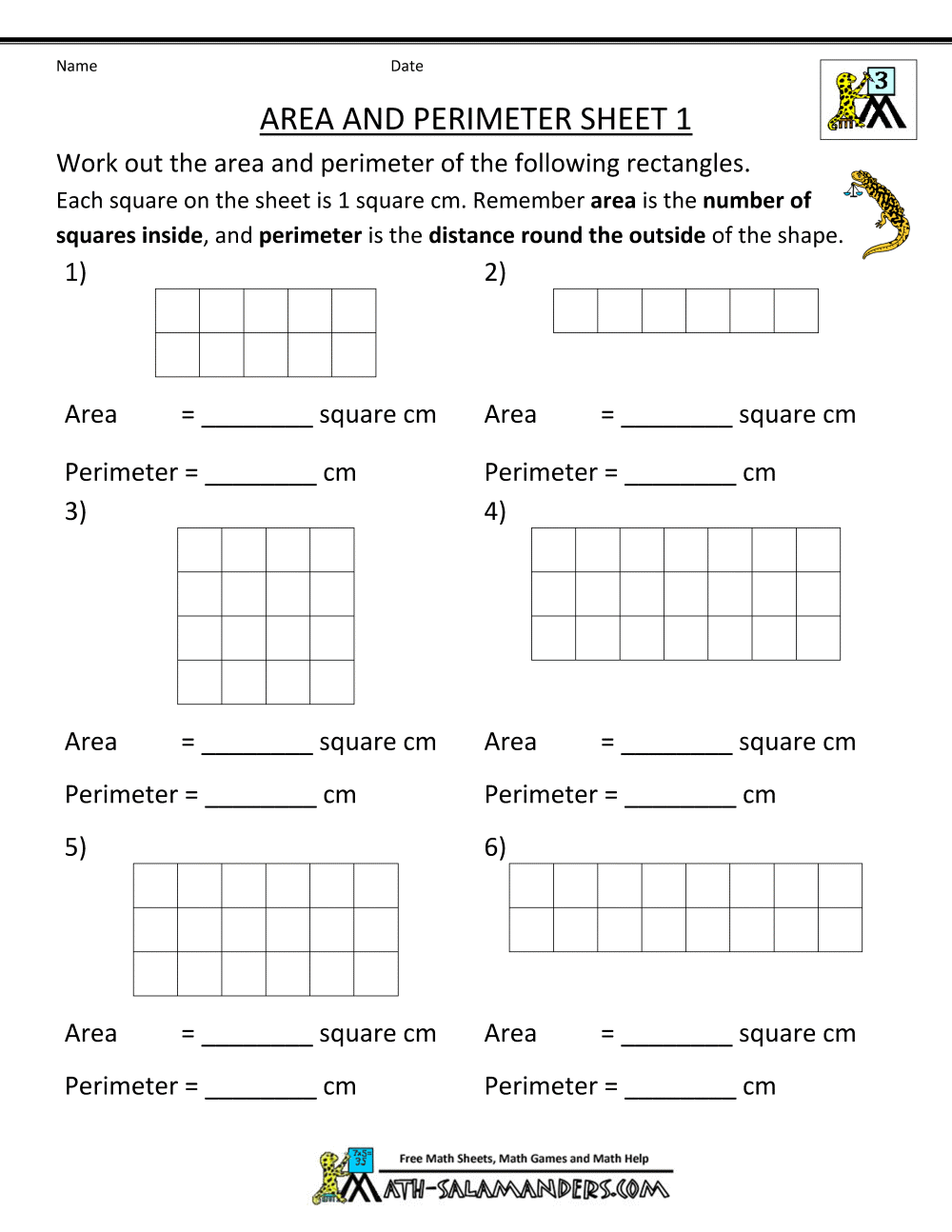
Area **√**

1.1.2

**Side**

Perimeter **√**

Area **√**

 (2)

1.2. **Square/vierkant √** (1)

1.3.  **√**

**√**  (2)

1.4.1 Perimeter 1.4.2 Perimeter

**√** **√**

**√** (2) **√** (2)

Area Area

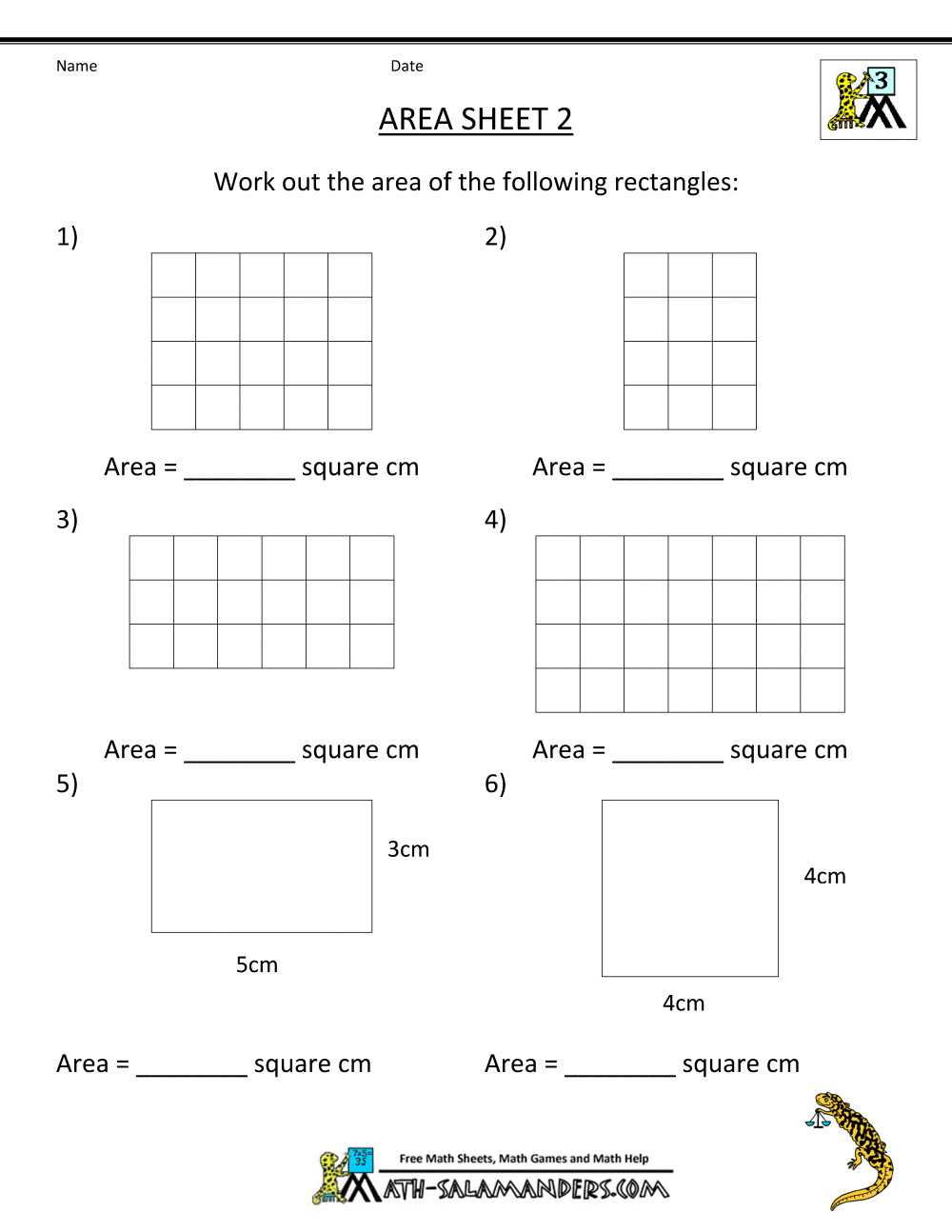
**√**  **√**

**√** (2) **√** (2)

**[15]**

**ACTIVITY 2**

2.1.1



**Length**

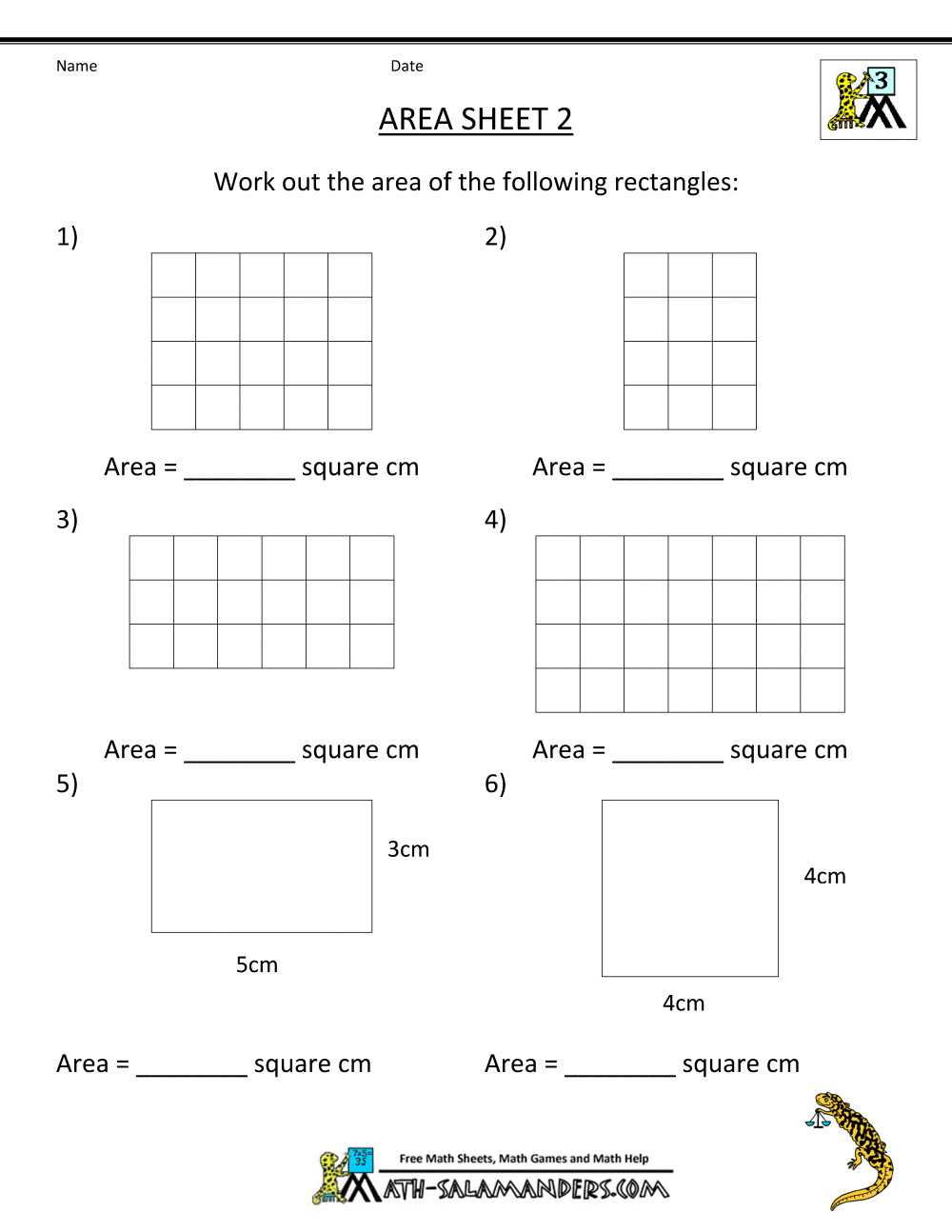
**Breadth**

Perimeter **√**

Area **√**

(2)

2.1.2.



**Length**

**Breadth**

Perimeter **√**

Area **√**

(2)

2.2. **Rectangle/reghoeke √ (1)**

2.3

**√**

**√** (2)

2.4.1 the perimeter



Perimeter

**√**

**√**

**√**  (3)

2.4.2 the area



Area

**√**

**√**

**√**  (3)

**[13]**

**ACTIVITY 3**

3.1.1 Area **√**

3.1.4 Area **√**

(2)

3.2.1

**√**

**√**  (2)

10 *cm*

4 *cm*

3 *cm*

5 *cm*

7 *cm*

3.2.2

rectangle 1

rectangle 2

**√**

**√**

**√**

**√**  (4)

**[8]**

**ACTIVITY 4**

**Surface area of an object is the sum of the areas of all its faces.**

4.1.1. Each learner/group of learners will have a different answer

Elke leerder/ groep leerders sal verskillende antwoorde hê.

4.1.2. In each of the rectangular prisms there is 3 pairs of rectangles with the same area./

In elke reghoekige prisma sal daar 3 pare reghoeke wees met dieselfde oppervlakte

4.1.3. Each learner/group of learners will have a different answer

Elke leerder/ groep leerders sal verskillende antwoorde hê.

* + 1. Yes. Using the formula √
    2. **√ √**  (2)

4.2.

4.2.

**√**

**√**

**√** (3)

4.3

0, 6 *m*

2 *m*

1, 2 *m*

Box B

100 *cm*

20 *cm*

50 *cm*

Box A

4.3.1

**√**

**√**

**√**  (3)

**S**

**√**

**√**

**√**  (3)

4.3.2

**√**

**√**

**√**  (3)

**[14]**