

# Workcard

Number

M42w4

Level: 3/4

Strand: Measurement

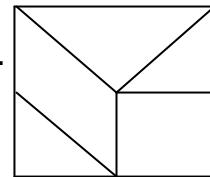
Substrand: Understand Units/Direct Measure

## TANGRAM AREAS

1. Cut out a five-piece tangram from a 10 cm square of grid paper.

How to draw the tangram:

1. Mark the midpoints of three sides of the square.
2. Find the centre of the square (where the two diagonals cross).
3. Draw the lines shown in the diagram.
4. Cut out the five pieces.



2. What is the area of the whole square?

3. Which piece of the tangram has the largest area?

4. Put the pieces in order of their area.

5. What fraction of the square is each piece? How can you tell?

6. Now find the area of each piece by counting the squares. (Think - Don't forget the part squares.)

7. Copy and fill in the table below:

Shape of each piece	Fraction of each piece	Area of each piece
Total		

8. Write about what you found.

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### Reflection:

1. What did you learn on this activity?

- a) How can you tell the pieces with the same area? different area?
- b) Do you need to count every small square for each shape to find the area, or is there a shortcut to find the area of the shape of each piece? If there is, how do we find the area of each?

Eg Area of square =  
 Area of triangle =  
 Area of parallelogram =

c) What is the unit used for area?

2. Give an example for each rule you found.