Painting a wall

Family Maths Toolkit

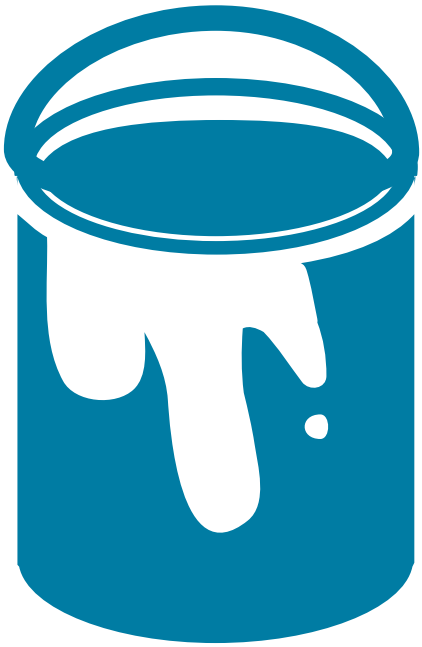
Maciez, a decorator, was painting a living room. He found that 1/5 of a can of paint covered 2.5 square metres of wall.

How much wall would one whole can cover?

Estimate how many cans of the same paint you would need to paint your bedroom walls.

Maciez noticed that the ceiling needed white paint and 1/3 of a can covered 3.5 square metres. How much ceiling would the whole can cover?

How many cans would be needed to cover your bedroom ceiling?



Family comments:

Child comments:

Curriculum Link

Using fractions to solve problems which involve calculating and comparing the area of rectangles (including squares) using standard units of squared metres.

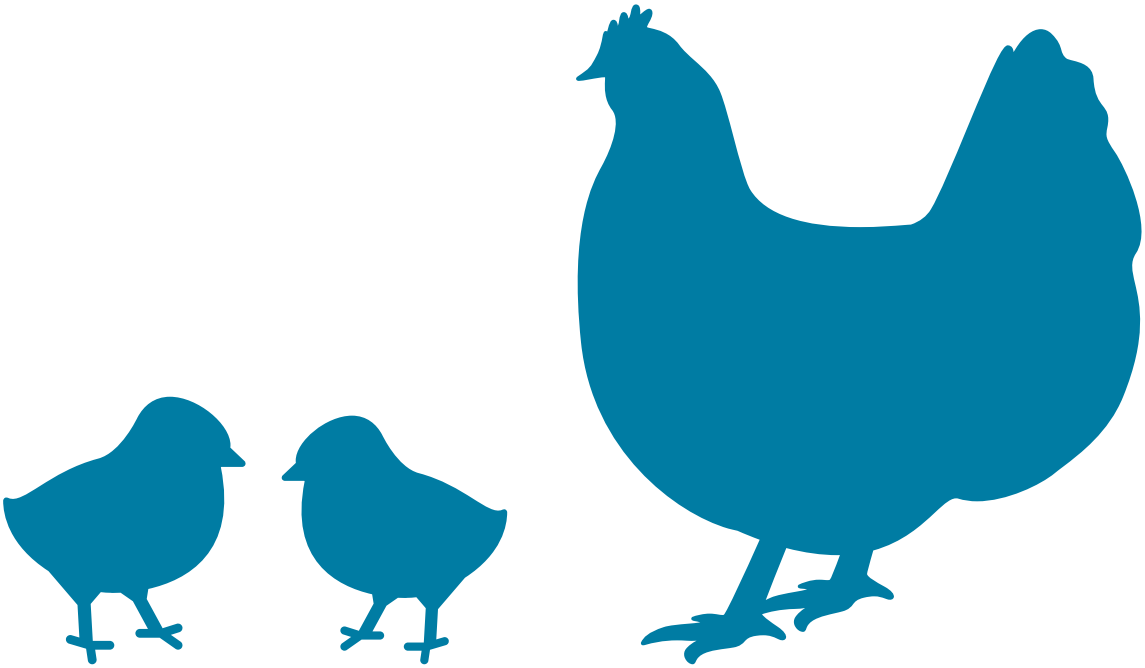
National Numeracy
Getting on with numbers

Children's petting zoo

Family Maths Toolkit

At the local petting zoo, the animals need RECTANGULAR enclosures. (1 square = 1 m^2)

1. Make a chicken enclosure which covers an area of 36 m^2 in the south-west corner of the map. Draw the chickens and make the enclosure yellow.
2. In the centre of the map make a rabbit enclosure that covers 4 m^2. Draw in the rabbits and colour the enclosure green.
3. In the east of the map make a lamb enclosure which covers 10 m^2. Draw in the lambs and colour the enclosure light brown.
4. Can you fit in any other enclosures? What area do they have and what animals are kept there? Draw paths to join all your enclosures.



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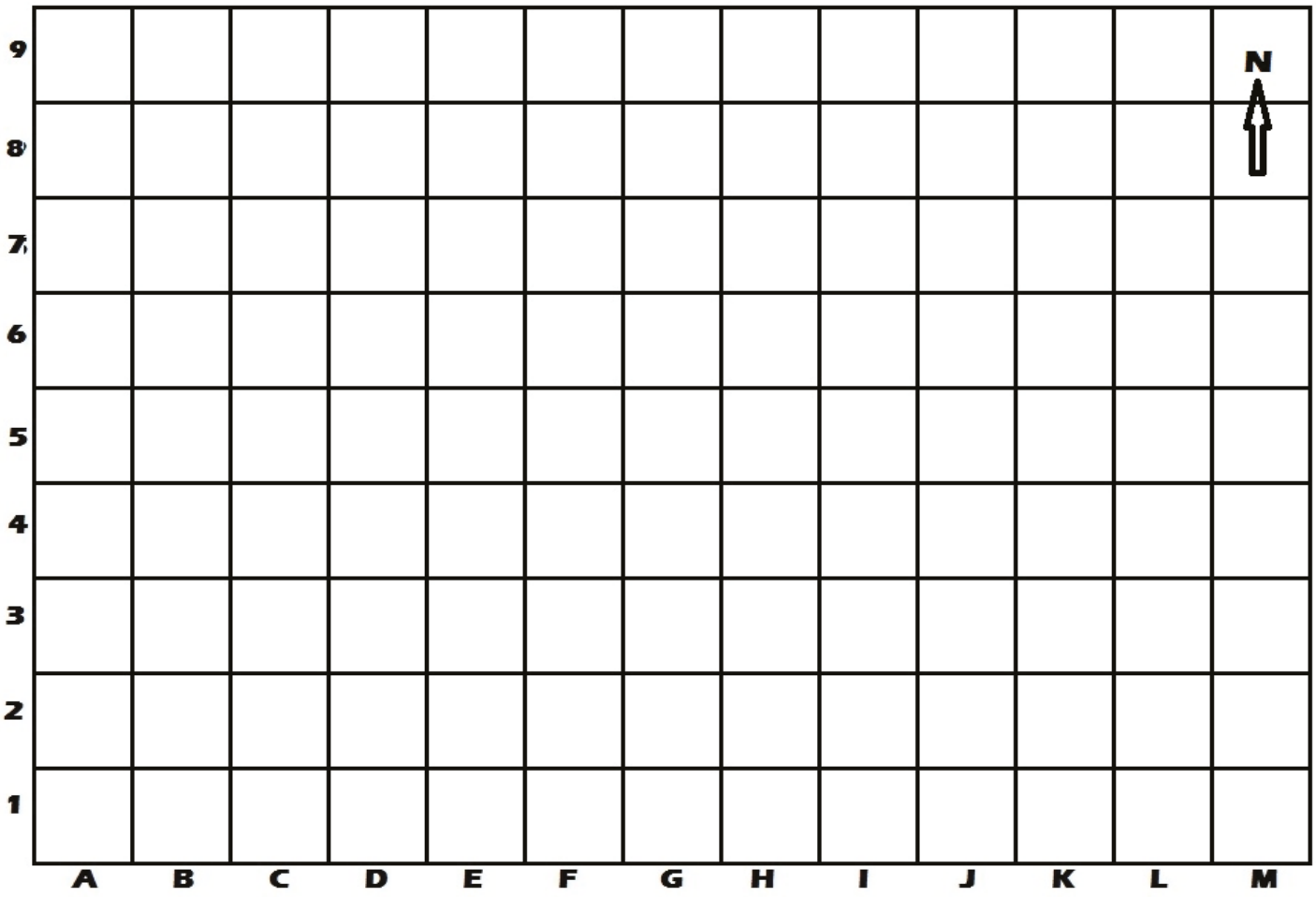

5. Could you draw another grid and design your own zoo for other animals? Be careful that the largest animals usually have the largest area of enclosure. Can you include any enclosures which are not rectangular?

NB: Please provide squared paper for both exercises.

Family comments:

Child comments:

Curriculum Link

Calculate the area of rectangles using square centimetres/ metres; know the points of the compass.

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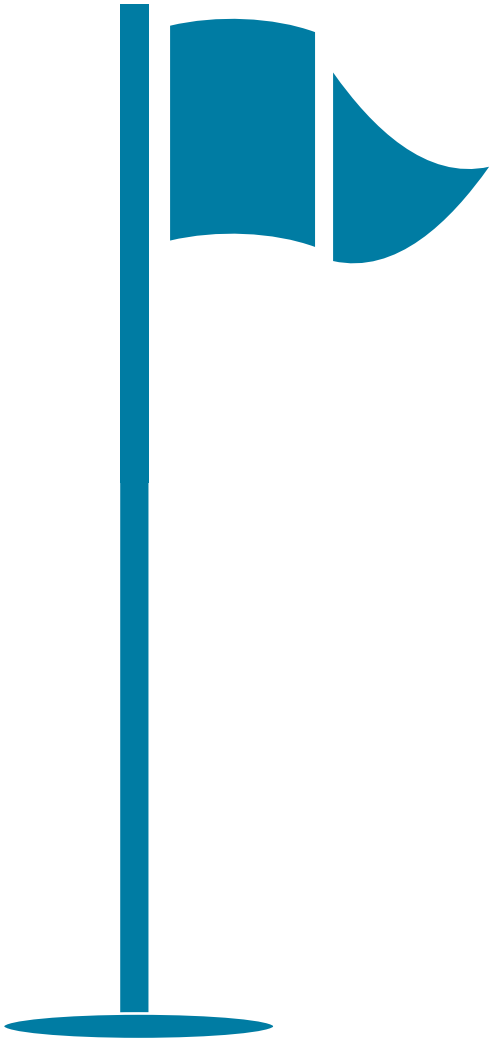
Golf balls

Family Maths Toolkit

The diameter of a golf ball is 4 cm. Sally's dad wants to make a box which will hold 6 golf balls, to take to the local golf course with his friends.

What size (length and width) could the box be?Is there more than one answer?



Family comments:

Child comments:

Curriculum Link

Measure and calculate the perimeter of shapes in centimetres.

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