Areas and perimeters
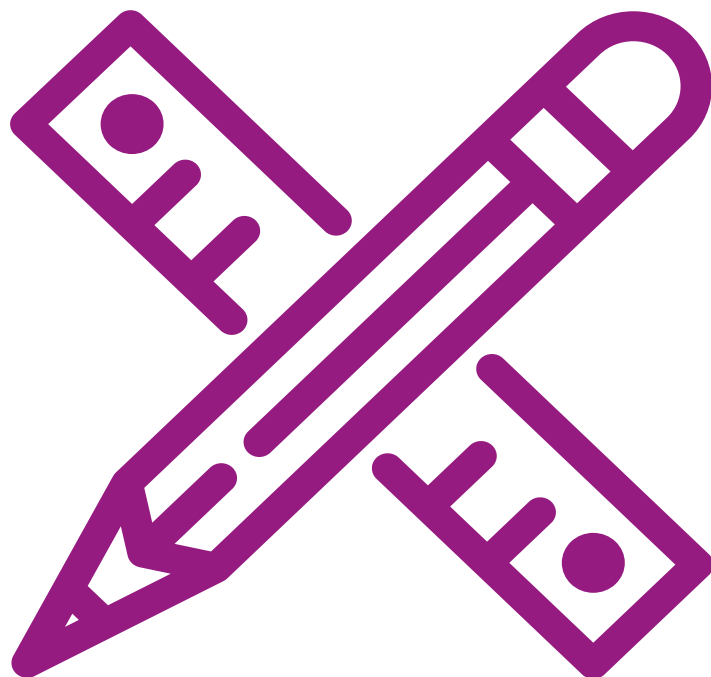
Estate agents give the size of rooms when they sell a house. Measure a room in your house to find the area – you can use squared paper to help you draw it and count the squares if it helps.

1. Which is the biggest room in your house?
2. Which is the smallest?
3. Measure the perimeter (all around the edge). Does the room with the largest area always have the longest perimeter?

Family comments:

Child comments:

Curriculum Link

Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. Find the area of rectilinear shapes by counting squares.

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Cocktail prices

Using the price list work out the cost in pounds (£) of each jug of fruit cocktail based on how much juice each cocktail uses:

1. Jug of Brilliant Blackcurrant: 650ml of blackcurrant juice and 150ml of apple juice.

2. Jug of Luscious Lemon: 700ml of lemon juice and 150ml of pineapple juice.

3. Jug of Original Orange: 450ml of orange juice and 350ml of pineapple juice.

4. Jug of Amazing Apple: 400ml of apple juice, 150 ml of lemon juice and 100ml of orange juice.

5. Jug of Proper Pineapple: 250ml of pineapple juice, 250ml of orange juice and 250ml of lemon juice.

6. Using only £3.50 can you create your own fruit cocktail recipe?

Price list

- **Pineapple juice:** 60p per 100ml

- **Orange juice:** 40p per 100ml

- **Lemon juice:** 50p per 100ml

- **Apple juice:** 80p per 100ml

- **Blackcurrant juice:** 30p per 100ml

Family comments:

Child comments:

Curriculum Link

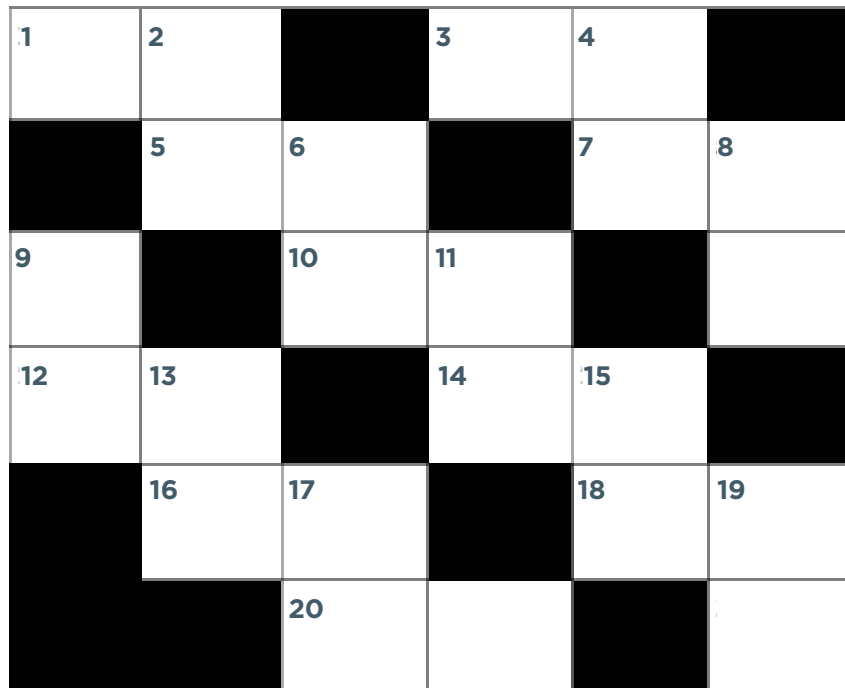Estimate, compare and calculate different measures, including money with pounds and pence.

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Crossword activity Part one

Here is an example of a simple number crossword. Can you solve it?

Across

1. 50 – 26

3. 5 x 7

5. 100 – 77

7. 20.5 + 20.5

10. 8 x 8

12. 56 + 41

14. 9 x 4

16. 170 – 89

18. 101 – 85

20. 26 x 2

Down

2. Double 21

4. Half of 108

6. 12 x 3

8. Half of 38

9. 100 – 1

11. $\frac{1}{4}$ of 172

13. Double 39

15. 32 + 29

17. $\frac{5}{10}$ of 30

19. 15 x 4

Now, can you and your family make up another for your friends to solve, for an extra challenge?!

Crossword activity
Part two

For an additional challenge, design your own grid – choose where to put the black squares (not as easy as it seems).

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Family comments:

Child comments:

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Special offer

When you go to the shops do you ever look for special offers like two for the price of one? Or buy one, get the second half price?

See how many special offers you can find by looking in a shop or online – are they all good bargains? Sometimes offers are not as good as they seem. For example, two 1 litre bottles of fruit juice for £5.00 when a 2 litre bottle costs £4.99!

Can you find any interesting offers?

Can you choose something you like to eat or drink and make up a good special offer for it?

Family comments:

Child comments:

Curriculum Link

Solve money problems in a real life context, using two decimal places and thinking mathematically.