## Year 6 homelearning 3

Alongside the homework, please read at home, be it a newspaper, magazine, book or internet article. Don't forget, if you would like an extra task, check the Take Home Tasks on the curriculum newsletter or practise the new spelling words. Also check out the Home Learning section on the website.

Look at the shapes below.

6cm, a, 2cm

5cm, b, 6cm

3cm

c, 5cm, 5cm

4cm, d
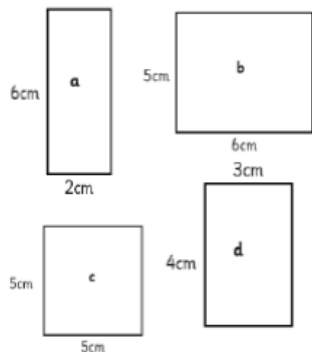
Do two shapes have the same area?
Do two shapes have the same perimeter?
Draw two different rectangles that have an area of 12cm^2 and a perimeter of 12cm
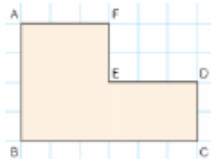
True or false?
Two rectangles with the same area can have different perimeters.
Explain your answer.

Look at the compound shape below.
Each square measures 1cm. To find the area, Tami calculated: $2 \times 3 + 6 \times 2$ and Leah calculated: $4 \times 6 - 2 \times 3$. They both get the correct answer of 18cm^2
Explain how they both thought about the problem.

Three children are given the same shape to draw.
Kate says, "The smallest length is 4cm."
Lucy says, "The area is less than 30cm^2."
Ash says, "The perimeter is 22cm."

What could the shape be? Is there more than one option?

10% of 34 =

20% of 34 =

2% of 34 =

25% of 34 =

27% of 34 =

90% of 34 =

2/3 + 1/3 =

2/3 + 2/6 =

2/3 + 2/7 =

25 x 234 =

3.5 x 3210 =

45918 ÷ 9 =
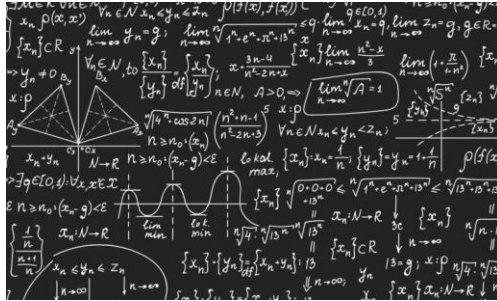
Don't forget to check out the learning links. Have a go on Sumdog and challenge your friends (and maybe your teacher) on Times Table Rockstars…

Choose digits to go in the empty boxes to make these number sentences true.

$14\ 781 - 6\ \boxed{}\ 53 = 8528$

$23 \cdot 12 + 22 \cdot \boxed{} = 45 \cdot 23$

Two numbers have a difference of 2·38. The smaller number is 3·12.
What is the bigger number?

Two numbers have a difference of 2·3. They are both less than 10.
What could the numbers be?

Compare $31 + 9 \times 7$ and $(31 + 9) \times 7$
What's the same? What's different?

Choose operations to go in the empty boxes to make these number sentences true.

$6\ \boxed{}\ 3\ \boxed{}\ 7 = 16$

$6\ \boxed{}\ 3\ \boxed{}\ 7 = 27$

$6\ \boxed{}\ 3\ \boxed{}\ 7 = 9$

Put brackets in these number sentences so that they are true.

$12 - 2 \times 5 = 50$

$12 - 8 - 5 = 9$

$10 \times 8 - 3 \times 5 = 250$

Prefixes

advertise
almost
believe
contest
contestant
destructive
disappeared
disturbed
encounter
encourage
ensure
important
injured
inspecting
invention
involved
preserve
prevent
produce
together
transformed
transported
uncoiled
unusual

Use a variety of these strategies when learning your spellings:

- Word in a word.
- Memory trick.
- Say it your way.
- Write it in a sentence in context.
- Silly sentences.
- Word pictures.
- Synonym/Antonym.

Think about the book you are reading at the moment.

Imagine you are the main character. Write a scene and consider what you would do differently. Remember your writing targets, tricks and skills!