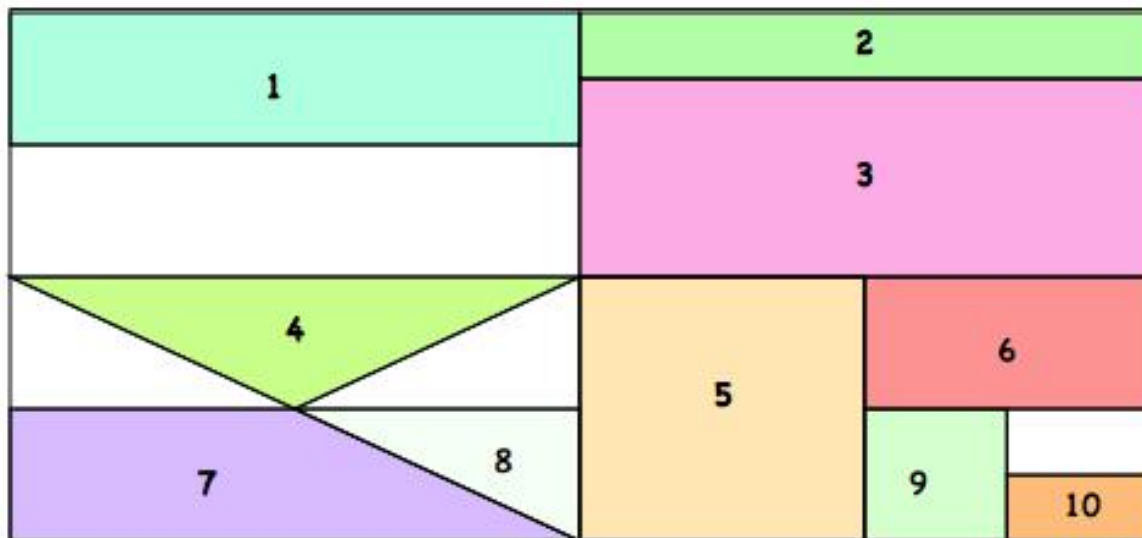


Year 4 Home learning – Summer

First half term

Rectangle Tangle



The large rectangle above is divided into a series of smaller quadrilaterals and triangles. Each of the shapes is a fractional part of the large rectangle.

Can you untangle what fractional part is represented by each of the ten numbered shapes?

For example:

$$2+3 = \frac{1}{4}$$

The (green) 2 and the (pink) 3 quadrilaterals above make up one quarter of the whole shape.

How many other fractions can you find?

Word problems

| | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Kasper had 247 windmills in his garden, he found 153 more. He then put them in piles of 5. How many piles did he have?</p> <p>a.</p> | <p>Kasper had a rectangular garden. It was 54 metres in width and 87 metres in height. What is the perimeter? Can you find the area?</p> <p>b.</p> | <p>Kasper walked 64 steps across his garden 5 times each day. How many steps was this altogether?</p> <p>c.</p> |
| <p>Kasper's milk treats cost £1.50 each. He bought 5 of them. How much change did he get from a £10.00 note? What coins could he get for his change?</p> <p>d.</p> | <p>Dexter sniffed 265 times every time he went into the woods. He did this 3 times each day. How many sniffs was that altogether?</p> <p>e.</p> | <p>Dood walked Dexter along a triangular path. One side of the path was 156m and the other was 221m long. The total distance was 450m. What was the distance of the final path?</p> <p>f.</p> |
| <p>Dexter flew 365 miles on Monday, 214 on Tuesday and 65 on Wednesday. How many miles did he fly altogether?</p> <p>g.</p> | <p>The rectangle had an area of 80cm². What could the lengths of the four sides be? Think of as many as you can.</p> <p>h.</p> | <p>Kasper slept for 10 hours every day. He did this for 3 weeks, Monday to Sunday. How many hours did he sleep altogether?</p> <p>i.</p> |
| <p>Dood had 340 treats in his food box. He wanted to share them between Dexter and himself and still have half left over. How many would Dood get?</p> <p>j.</p> | <p>Dexter was 143cm tall when he was a puppy. He is now 232cm tall. How far has he grown? Can you write your answer in metres?</p> <p>k.</p> | <p>Dexter was able to fly at 15 miles every 30 minutes. He flew for 2 hours. How many miles was this?</p> <p>l.</p> |

Word list – years 3 and 4

| | | | |
|----------------|--------------|----------------|-----------------|
| accident(ally) | early | knowledge | purpose |
| actual(ly) | earth | learn | quarter |
| address | eight/eighth | length | question |
| answer | enough | library | recent |
| appear | exercise | material | regular |
| arrive | experience | medicine | reign |
| believe | experiment | mention | remember |
| bicycle | extreme | minute | sentence |
| breath | famous | natural | separate |
| breathe | favourite | naughty | special |
| build | February | notice | straight |
| busy/business | forward(s) | occasion(ally) | strange |
| calendar | fruit | often | strength |
| caught | grammar | opposite | suppose |
| centre | group | ordinary | surprise |
| century | guard | particular | therefore |
| certain | guide | peculiar | though/although |
| circle | heard | perhaps | thought |
| complete | heart | popular | through |
| consider | height | position | various |
| continue | history | possess(ion) | weight |
| decide | imagine | possible | woman/women |
| describe | increase | potatoes | |
| different | important | pressure | |
| difficult | interest | probably | |
| disappear | island | promise | |