

## EYFS (Nursery and Reception)

Bradley made 10 cakes for his birthday party. He has a very cheeky dog who loves eating cake. His dog ate 4 cakes. Draw how many cakes Bradley has left.



## KS1 (Year 1 & 2) – Stars, triangles and circles

These calculations all have shapes instead of numbers.

- a) If the star represents 16, can you work out what numbers the other shapes represent?

$$\text{Circle} + \text{Circle} + \text{Circle} + \text{Circle} = \text{Star}$$

Circle = \_\_\_\_\_

$$\text{Triangle} + \text{Triangle} = \text{Star}$$

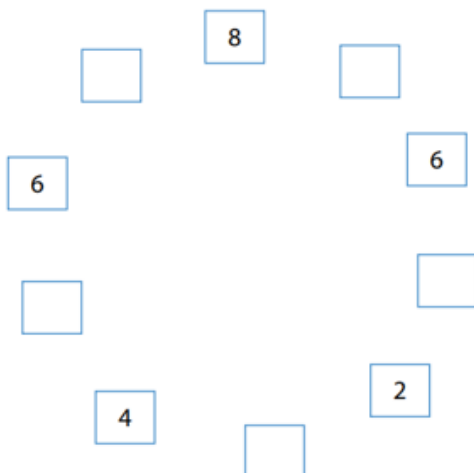
Triangle = \_\_\_\_\_

- b) Now try to answer these calculations!

$$\text{Triangle} \times \text{Circle} = \boxed{\phantom{000}} \quad \text{Triangle} + \text{Circle} = \boxed{\phantom{000}} \quad \text{Star} \div \text{Triangle} = \boxed{\phantom{000}}$$

## LKS2 (Year 3 and 4) – Round we go

Can you add in the mathematical symbols (+, −, ×, ÷, =) to make the circular calculation correct? Your answer to the calculation will be the same number you started with in the circle. For example if you start at 6 then your answer will be 6 once you have gone around the circle, performing each calculation.



## UKS2 (Year 5 and 6) – Sweets for my heart




1. A mini pack of Love Hearts costs 12p. If there are 7 sweets in a pack, what is the cost of 1 sweet? Give your answer to one decimal place.
2. You can buy a box of 100 mini packs of Love Hearts for £8.55. How much cheaper is this than buying 100 individual packs?
3. Giant Love Hearts cost 35p per pack. If they are on offer at 4 for £1, how much money would you save if you bought one pack for each person in your class?
4. You have 88 Love Hearts and decide to share them with a friend. For every 5 Love Hearts you keep, you give 3 to your friend. How many Love Hearts do you give away in total?

Name: \_\_\_\_\_

Year: \_\_\_\_\_

Working out space:



Now explain how you solved the problem!

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Remember you can work the challenge out any way you would like to: draw pictures, use materials like buttons as counters, count in your head... Just make sure you show this on your solution paper!