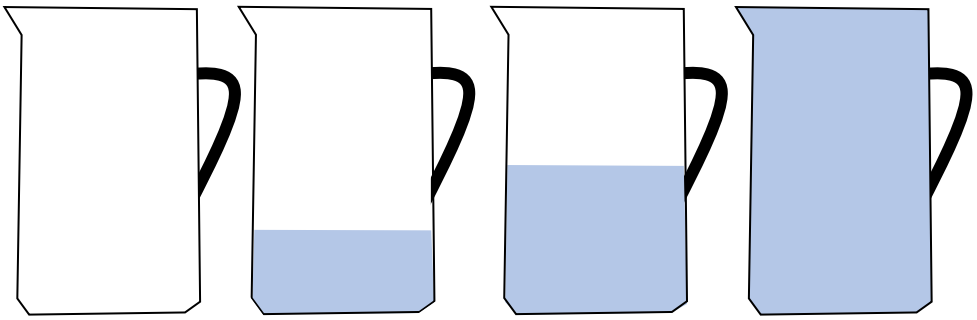
Arithmetic

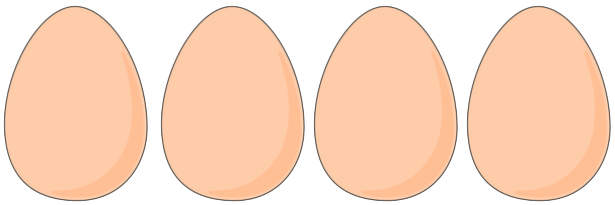
1. 12 – 3	**2.** One more than 20	**3.** 10 + 8	**4.** Double 9

Practice: Find a Quarter (2)

5. Circle the jug that is one quarter full.



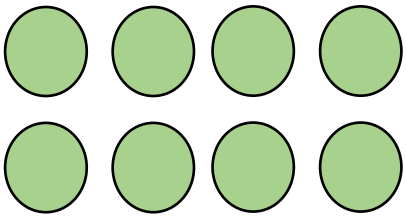
6. Complete the sentence.

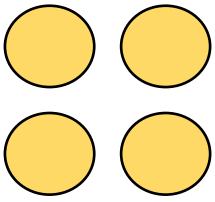


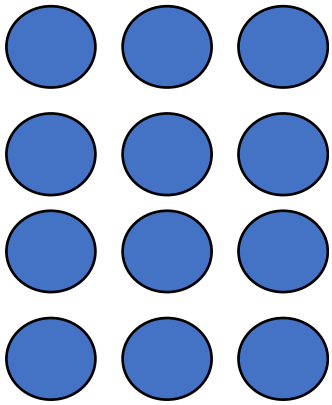
There are ____ eggs.

One quarter of ____ is ____

7. Find one quarter of each group.







You might want to talk to an adult

Use resources to help you

Spot the mistake

8. Complete the sentences.

Quarter of ☐ is 4.

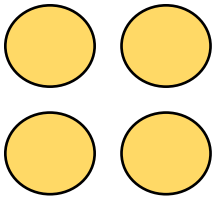
One quarter of 4 is ☐

$\frac{1}{4}$ of ☐ is 1.

9. Is it possible to easily share these doughnuts into four equal groups?

10. Sade says one quarter of four is four.

Explain why Sade is right or wrong.



Challenge

11. Choose a number of objects. Split the objects into four groups so there is an equal number in each quarter.

Write down the numbers that you can do this with.

What do you notice about these numbers?

Answers

Q no.	Question	Answer
1	12 – 3	9
2	One more than 20	21
3	10 + 8	18
4	Double 9	18
5	Circle the jug that is one quarter full.	The second jug is circled.
6	Complete the sentence.	4, 4, 1
7	Find one quarter of each group.	8 counters – any 2 circled, 4 counters – any 1 circled, 12 counters – any 3 circled
8	Complete the sentences.	16, 1, 4
9	Is it possible to easily share these doughnuts into four equal groups?	While it is possible to find a quarter of ten, the answer would not be a whole number. Pupils could identify that they could split 8 doughnuts into four equal groups and have two doughnuts left over. This question is designed to encourage pupils to see that there are numbers or amounts that cannot be easily split into quarters.
10	Explain why Sade is right or wrong.	Sade is wrong. Pupils may wish to find this using concrete resources, showing that a quarter of four is one.
11	Choose a number of objects. Split the objects into four groups so there is an equal number in each quarter. Write down the numbers that you can do this with. What do you notice about these numbers?	Pupils should have written down multiples of four. They may notice that these are all even numbers. They may notice that the numbers increase by 4 every time.