8 Fractions

We are learning to...
- Find a fraction of a shape
- Find a fraction of a set
- Order fractions

Vocabulary

denominator	fraction
divide	numerator
division	set
equal	unit
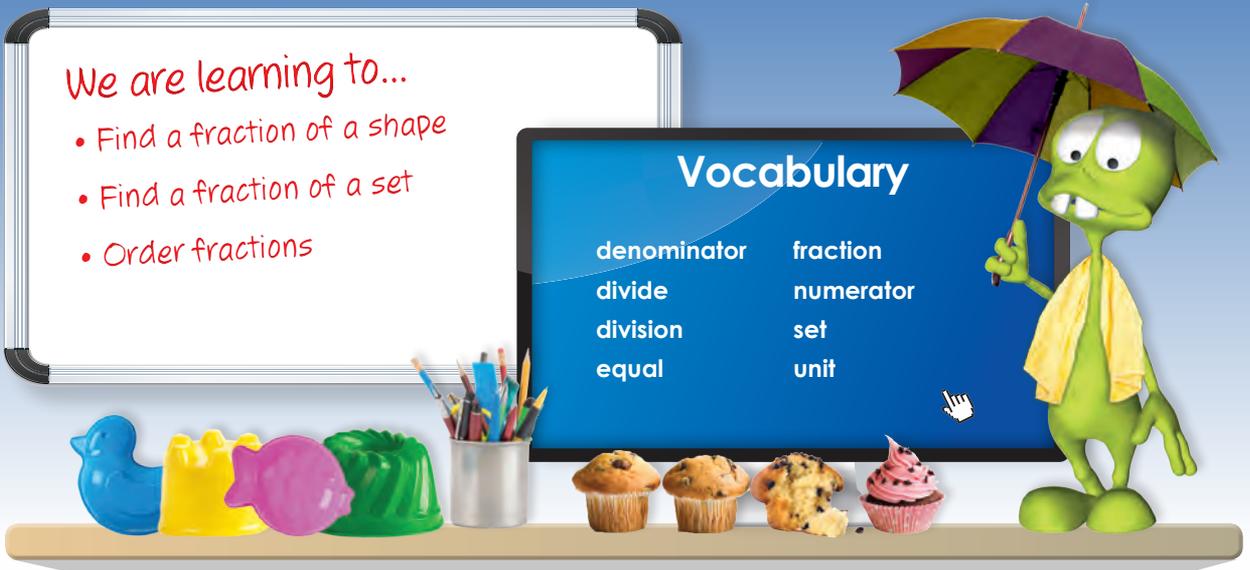
Getting started

The trip to the beach

a   How can you tell if something has been divided into halves or quarters?

b   Find all of the things in this picture that have been cut or divided into halves ($\frac{1}{2}$s) and quarters ($\frac{1}{4}$s).

If you can answer these you are ready for this chapter.

1

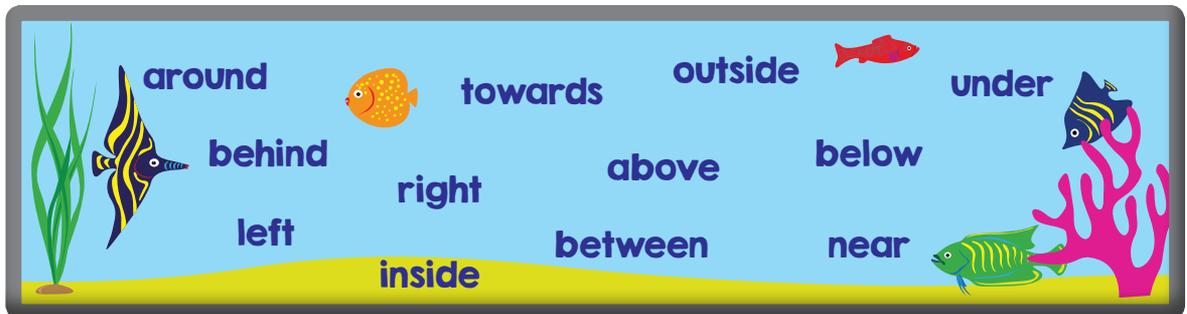Write the letters of all the fish

a   swimming **right**   b   swimming **left**

2   Which fish is **beneath Fish D** and **above Fish A**?

3   Which fish is **below Fish C** and **beside the crab**?

4   Which fish is **between Fish K** and **Fish I**?

5

around   towards   outside   under

behind   above   below

right   between   near

left   inside

Use **two words** from the aquarium to describe the position of these.

a   Fish B   b   Fish F   c   the crab   d   a fish that you choose

Decide with your teacher or group when to do this task.

1 *Treasure!*

1   Collect or take photos of some 3-D objects. Make sure you have some spheres, cuboids, pyramids, cylinders, cones and prisms.

2   **Sort** your 'treasure' into groups of shapes that have something in common.

Example   Jess made a group of cuboids.

THINK SHARE ?

3   Display your groups. Describe each one.

Group name: Cuboids
12 edges
6 faces
8 corners
Each face is a square or a rectangle.

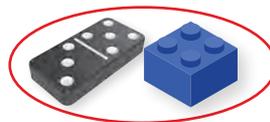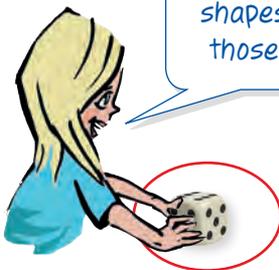4   Find a **different way** to sort your treasure into groups.

You could use a computer or containers or ... be creative!

5   Try to divide your groups up into smaller groups.

Example   I divided my cuboids into shapes that are cubes and those that are not cubes.

Cubes have **all** square faces. Cuboids have some rectangular faces.
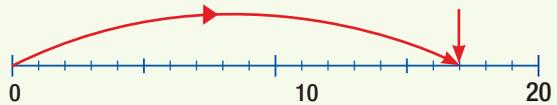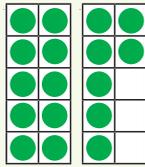
Adding to and subtracting from a tens number

Practical

Make 20

- tens frames
- counters

1 a What number do these show?

b What do you have to add to it to make 20?

c Copy and finish this equation. _____ + _____ = 20

2 Use tens frames and a number line to show what you have to add to these to make 20.
Write an equation for each one.

| a 8 | b 7 | c 9 | d 12 | e 14 |
| f 16 | g 19 | h 4 | i 3 | j 11 |

Activity 1

1 On your copy, fill in the missing numbers to make 20.

b 15 + ___
c 11 + ___
a ___ + 12
d 16 + ___
= 20
h ___ + 8
e 7 + ___
g ___ + 14
f 20 + ___

NA2-3: Know the basic addition and subtraction facts.