



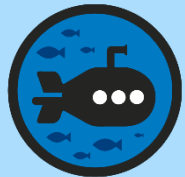
## Fraction of an Amount

# Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



Diving



Deeper



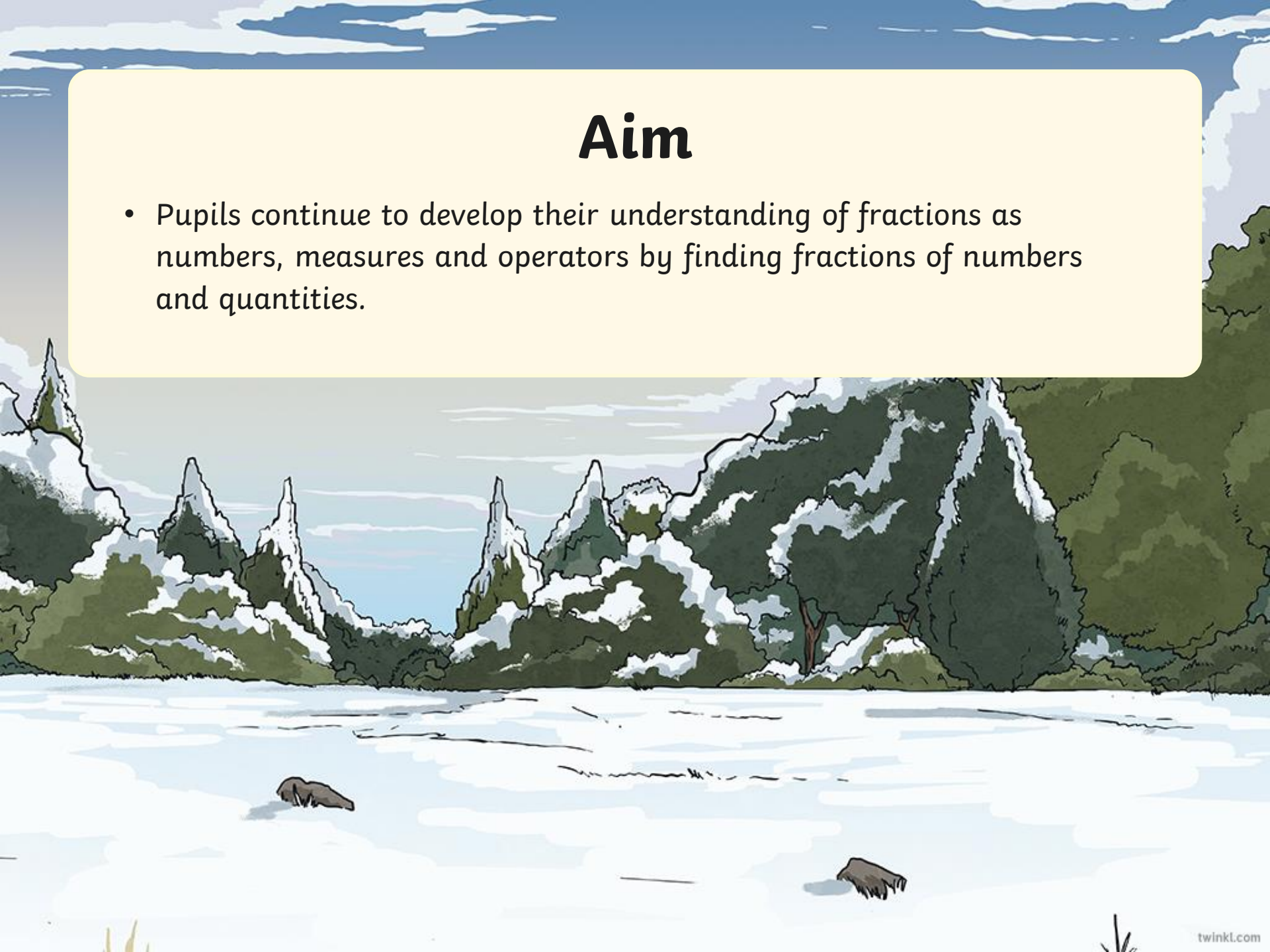
Deepest

These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

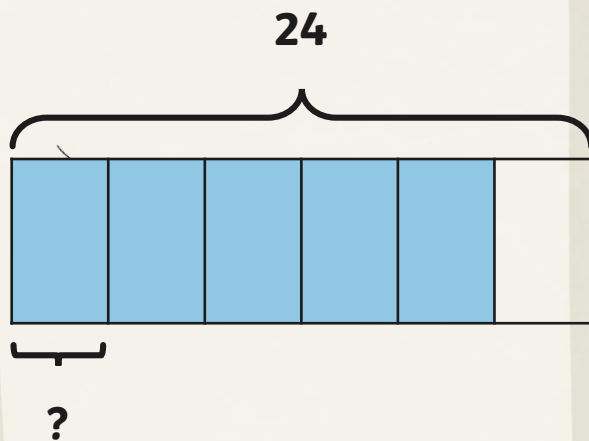
# Aim

- Pupils continue to develop their understanding of fractions as numbers, measures and operators by finding fractions of numbers and quantities.





Use the bar model to help you find these fractions of 24.



$$\frac{1}{6} \text{ of } 24 = 4$$

$$24 \div 6 = 4$$

$$\frac{2}{6} \text{ of } 24 = 8$$

$$24 \div 6 = 4$$

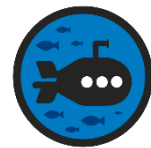
$$4 \times 2 = 8$$

$$\frac{5}{6} \text{ of } 24 = 20$$

$$24 \div 6 = 4$$

$$4 \times 5 = 20$$





There are 32 pencils in the tray.

$\frac{3}{8}$  of them are sharp. How many pencils are blunt?

$$32 \div 8 = 4, \text{ so } \frac{1}{8} \text{ of } 32 = 4$$

$$4 \times 5 = 20, \text{ so } \frac{5}{8} \text{ of } 32 = 20$$

20 pencils are blunt.





In the winter, the children in Class 5 wear either jumpers or cardigans.

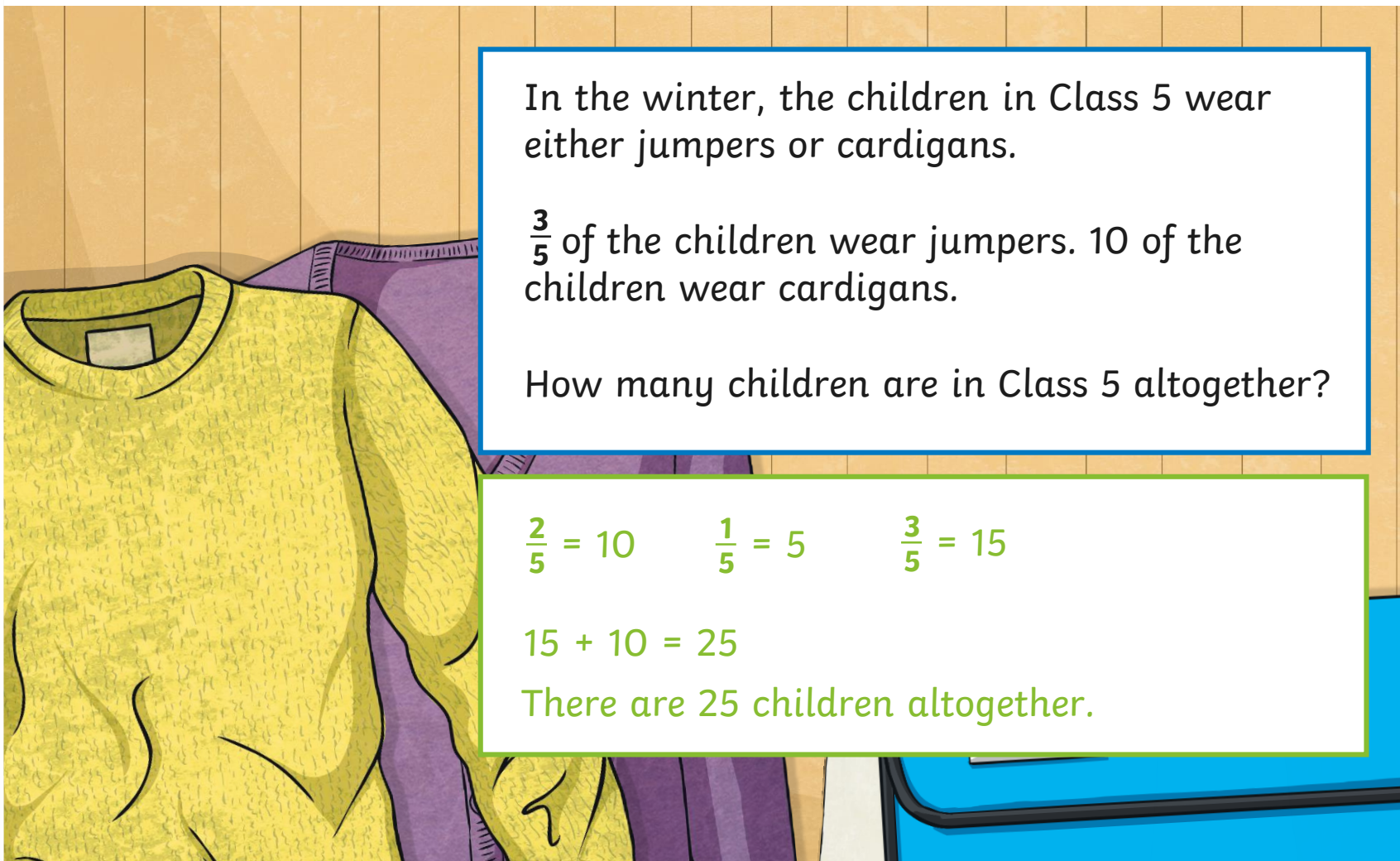
$\frac{3}{5}$  of the children wear jumpers. 10 of the children wear cardigans.

How many children are in Class 5 altogether?

$$\frac{2}{5} = 10 \quad \frac{1}{5} = 5 \quad \frac{3}{5} = 15$$

$$15 + 10 = 25$$

There are 25 children altogether.





Rearrange the set of digit cards to make fractions of amounts.  
How many ways can you find to rearrange the cards?

1

of



=



2

3

6





Rearrange the set of digit cards to make fractions of amounts.  
How many ways can you find to rearrange the cards?

1

of



=



2

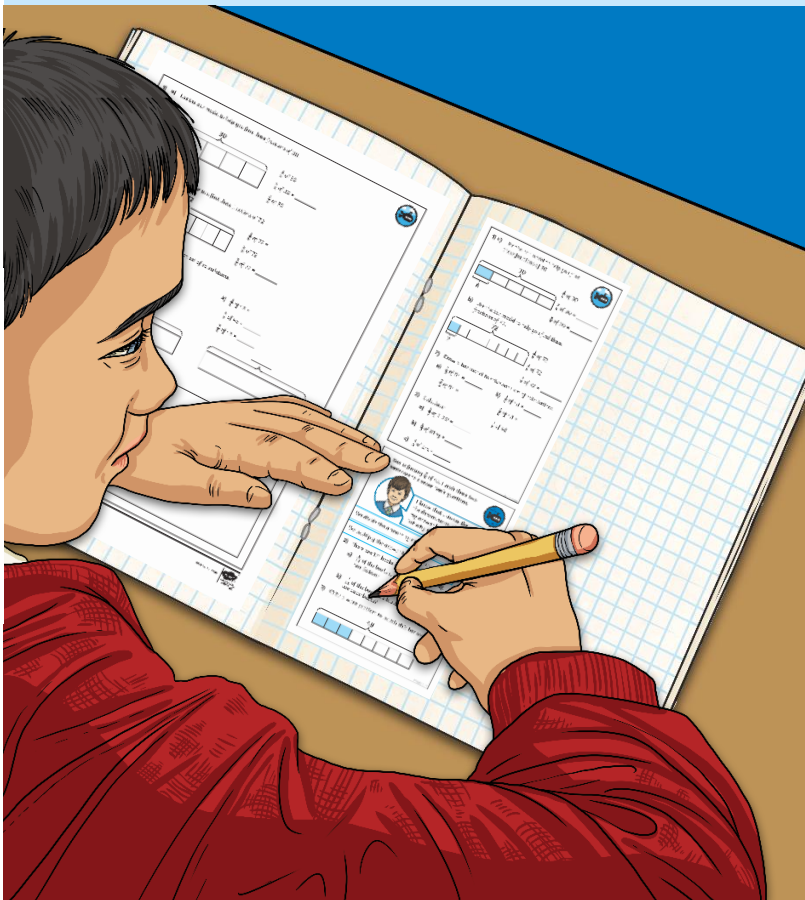
3

6



# Fraction of an Amount

Dive in by completing your own activity!



1)  $\frac{2}{3}$  of the class are boys. She has 18 boys. How many girls are there?

2) George has 120 books. He has 40 fiction books. How many non-fiction books does he have?

3) Rearrang. How many does not...

a) 2

b) 2

c) 1

Ben is finishing his homework. He has 30 minutes left. He has to spend 15 minutes on his science homework. How long does he have to spend on his math homework?

We divide this by 2.

George has 120 books. He has 40 fiction books. How many non-fiction books does he have?

We multiply this by 2.

2) There are 120 books in total. How many non-fiction books does he have?

a)  $\frac{2}{3}$  of 120 = \_\_\_\_\_

b)  $\frac{1}{3}$  of 120 = \_\_\_\_\_

3) Write a word problem for each of these calculations.

1) a) Use the bar model to help you find these fractions of 30.

$\frac{1}{3}$  of 30 = \_\_\_\_\_

$\frac{2}{3}$  of 30 = \_\_\_\_\_

$\frac{1}{6}$  of 30 = \_\_\_\_\_

b) Use the bar model to help you find these fractions of 72.

$\frac{1}{3}$  of 72 = \_\_\_\_\_

$\frac{2}{3}$  of 72 = \_\_\_\_\_

$\frac{1}{7}$  of 72 = \_\_\_\_\_

2) Complete the bar model to solve each set of calculations.

a)  $\frac{2}{3}$  of 34 = \_\_\_\_\_

$\frac{1}{3}$  of 34 = \_\_\_\_\_

b)  $\frac{1}{4}$  of 48 = \_\_\_\_\_

$\frac{3}{4}$  of 48 = \_\_\_\_\_

$\frac{1}{8}$  of 48 = \_\_\_\_\_

3) Calculate:

a)  $\frac{2}{3}$  of 1.25 = \_\_\_\_\_

b)  $\frac{1}{5}$  of 81 kg = \_\_\_\_\_

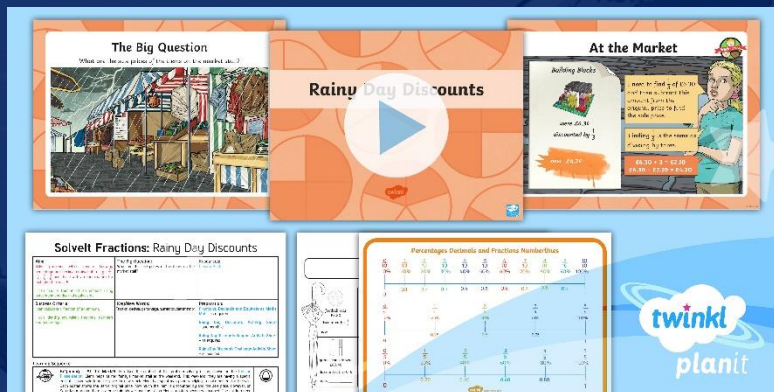
c)  $\frac{1}{2}$  of 2m = \_\_\_\_\_

# Need Planning to Complement this Resource?

## National Curriculum Aim

Pupils continue to develop their understanding of fractions as numbers, measures and operators by finding fractions of numbers and quantities.

For more planning resources to support this aim, [click here](#).



Twinkl Planit is our award-winning scheme of work with over 4000 resources.





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