

Activity:

The aim of this activity is for children to practise finding fractions of a given number. Children are given a set of digit cards which can only be used once to complete the two statements. Children will need to explore different combinations of digits that can be used to complete the statements. Children may find it useful to create a set of digit cards to move around so they know which digits they have left to use.

Vocabulary:

Digit cards refers to a physical resource which can be used to create numbers. The digits 0 to 9 are written on individual cards (or paper) and can be ordered to make different numbers.

> < = are comparison symbols used to represent more than (>), less than (<) and equal to (=).

To find a **fraction of a quantity**, you must first divide the whole number by the **denominator** to find the **unit fraction** and then multiply this answer by the **numerator** to complete the calculation. For example: to find $\frac{3}{4}$ of 24, you first complete $24 \div 4$ which equals 6, to find $\frac{1}{4}$ of 24. To find $\frac{3}{4}$, you do 6×3 which is 18 meaning $\frac{3}{4}$ of 24 = 18.

A **unit fraction** is a fraction where the numerator is 1. For example: $\frac{1}{4}$.

The **numerator** and **denominator** are the parts of a fraction. The **numerator** is the number above the line in a fraction and it indicates the number of parts out of the whole there are. The **denominator** is the number below the line in a fraction and it indicates how many equal parts a whole has been divided into.

Supporting resources:

You can watch a video tutorial about calculating fractions of quantities on [kids.classroomsecrets.co.uk](https://www.classroomsecrets.co.uk) >> **Year 4 >> Maths >> Fractions >> Video Tutorials**.

You can watch the answer explanation video which takes children through this activity and ways to answer it on <https://www.youtube.com/user/ClassroomSecretsLtd/> **playlists >> Year 4 Playlist >> Fractions of a Quantity Answer Explanation**.

Other resources:

If your child enjoyed this activity and wants to try more activities linked to this learning, you can sign up for £4.83 per month on [classroomsecrets.co.uk/membership](https://www.classroomsecrets.co.uk/membership).

Check out our daily timetable for Year 4 home learning activities on [kids.classroomsecrets.co.uk](https://www.classroomsecrets.co.uk) >> Home Learning Timetable.

Fractions of a Quantity

Use the digit cards to complete the comparison statements. Each digit card can only be used once but two digit cards can be placed in one empty box.

$$\frac{\square}{\square} \text{ of } 18 > \frac{4}{\square} \text{ of } \square$$

$$\frac{6}{\square} \text{ of } \square = \frac{\square}{\square} \text{ of } 48$$

- 1 2 2 3 4 4 5 6 8 8

Is there more than one way to solve the problem?

There are various ways to solve this problem. Accept any answer that correctly completes each statement. Two examples are given below.

$$\frac{5}{6} \text{ of } 18 > \frac{4}{4} \text{ of } 8$$

$$\frac{6}{8} \text{ of } 32 = \frac{1}{2} \text{ of } 48$$

$$\frac{5}{6} \text{ of } 18 > \frac{4}{4} \text{ of } 12$$

$$\frac{6}{8} \text{ of } 24 = \frac{3}{8} \text{ of } 48$$