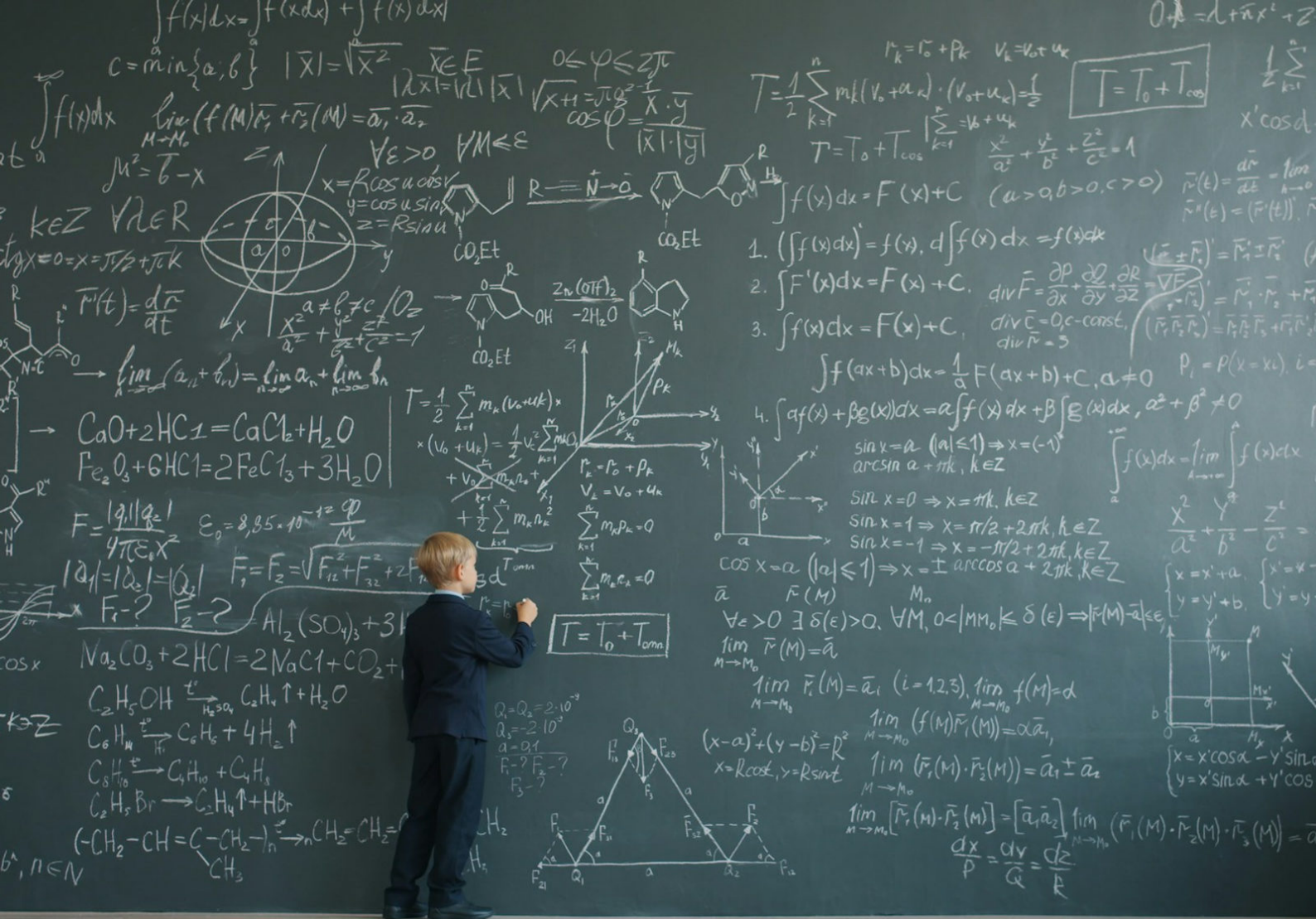




EduTrend Contents

EDUTECH · MATHEMATICS · PRIMARY

Fraction Walls

Fold paper strips to discover equivalent fractions

Ages 8–11

Level: Developing

45 minutes

Pairs · up to 30

Activity 02

Inside: activity at a glance · step-by-step session plan · facilitator notes · 3 pupil worksheets · assessment checklist

ACTIVITY 02 · AT A GLANCE

Fraction Walls

Each pair keeps one paper strip whole and labels it 1. They fold and cut other strips into halves, quarters and eighths and label each piece. Stacking the strips into a wall, they look for pieces that line up exactly and record every equivalence, such as two quarters equal one half.

Learning outcomes

By the end of the session pupils can:

- make fractions of a whole;
- compare unit fractions;
- find equivalent fractions;
- move from objects to pictures to symbols.

KEY WORDS

fraction · whole · half · quarter · eighth · equivalent

CURRICULUM LINKS

Science: measuring. Art: folding and pattern. Cooking: sharing and recipes.

1**NOTICE**

What do we see?

2**REPRESENT**

Concrete, picture, symbol

3**EXPLORE**

Try and look for patterns

4**CONJECTURE**

What might always be true?

5**JUSTIFY**

Explain why

6**CONNECT**

Where else does it apply?

Materials (per pair)

- 6 paper strips of equal length
- Scissors
- Coloured pencils
- Worksheets 1, 2 and 3

Before the session

- Cut strips of equal length.
- Prepare a demonstration wall.
- Plan pairs.
- Print worksheets.

SAFETY

Use scissors safely and pass them handle first.

ACTIVITY 02 · SESSION PLAN

Step by step

Ask why one eighth is smaller than one quarter even though 8 is bigger than 4.

Time	What happens	Say or ask
0–5 min Hook	Show a whole strip.	<i>"How could we share it fairly?"</i>
5–20 min Make	Fold and cut halves, quarters, eighths.	<i>"Are the pieces equal?"</i>
20–32 min Build	Stack the wall.	<i>"What lines up?"</i>
32–40 min Record	Write equivalences.	<i>"How do you know?"</i>
40–45 min Reason	Compare unit fractions.	<i>"Why is one eighth smaller?"</i>

CHALLENGE CARD (print or copy onto the board)

Build a fraction wall, find and record every equivalence, and explain why fractions with bigger denominators can be smaller.

ACTIVITY 02 · FACILITATOR NOTES

The maths know-how in brief

A fraction describes equal parts of a whole. The denominator says how many equal parts the whole is split into; the numerator says how many parts we have.

Equivalent fractions name the same amount, such as $1/2 = 2/4 = 4/8$. Moving from paper strips to drawings to symbols follows the concrete, pictorial, abstract approach.

Common ideas to listen for

- “ $1/8$ is bigger than $1/4$ because $8 > 4$.” More parts means smaller parts.
- “Parts do not need to be equal.” Fractions need equal parts.
- “ $2/4$ is more than $1/2$.” They are equal.

Adapting the activity

Support

Use halves and quarters only.

Stretch

Add thirds and sixths and find new equivalences.

WORKSHEET 1

My fraction wall

Name: _____

Class: _____ Date: _____

Record pieces.

My fraction wall

Strip	Number of pieces	Each piece is
Whole		
Halves		
Quarters		
Eighths		

WORKSHEET 2

Equivalences

Record what lines up.

Equivalences

This	equals	This
1		
2		
3		
4		
5		

WORKSHEET 3

Explain

Why is $\frac{1}{8}$ smaller than $\frac{1}{4}$?

My explanation

FOR THE TEACHER

Assessment checklist

Use during the session. One sheet covers up to eight pupils; copy as needed.

Pupil	Makes equal parts	Finds equivalences	Explains comparisons

Suggested codes: W = working towards · E = expected · G = greater depth

ABOUT THIS ACTIVITY

Fraction Walls is a sample activity from the EduTrend Contents Edutech Mathematics programme (primary, level: developing). Every activity in the programme follows the same format: a practical challenge, a clear session plan, facilitator notes and ready-to-print worksheets, so that teachers, club leaders and parents can run it without extra preparation.

Full 15-, 20- and 32-week programmes are available from EduStore at edutrend.org.

© 2026 EduTrend Contents. This activity may be printed and copied for use with pupils in your own school, club or home. It may not be resold or published elsewhere. Photos: Vitaly Gariev / Unsplash.