

GRADE 5 LEARNING PACK

Fractions: Equivalence, Order & Operations

Compare, convert and calculate with fractions using models and common denominators where appropriate.

LEARN • PRACTISE • CREATE • REFLECT

Original BrightPencil Kids resource - adult-led where appropriate

A4 edition • 12 purposeful pages • review copy

Print. Learn. Grow.

Grown-up guide

Learning objective

Compare, convert and calculate with fractions using models and common denominators where appropriate.

Use this pack well

- Model the first example aloud, then let the learner try.
- Ask “How do you know?” more often than “Are you finished?”.
- Use real objects, talk, movement or observation when the activity suggests it.
- Stop or shorten the session if attention or enjoyment drops.
- Open-ended pages can have many successful answers.

Quality note

This resource was written originally for BrightPencil Kids. Curriculum sources informed scope and progression only; no third-party worksheet or story text is reproduced.

Learn the idea

1

Equivalent fractions name the same value with different-sized parts.

2

Common denominators allow like-sized parts to be combined or compared.

3

Fraction calculations should be checked against benchmarks such as 0, one-half and 1.

Talk about it

Explain one idea in your own words. Give an example from real life, a drawing or an object if that helps.

Order $\frac{2}{3}$, $\frac{3}{4}$ and $\frac{5}{8}$ using a model or common denominator.

Find equivalent fractions for $\frac{3}{5}$.

Add $\frac{3}{8} + \frac{1}{4}$ by creating like parts.

Subtract $\frac{7}{10} - \frac{2}{5}$.

Find $\frac{3}{4}$ of 28 and explain the strategy.

Try it beyond the page

Real-world / hands-on connection

Use strips of folded paper or a number line to model two equivalent fractions and one addition example.

Before you finish

What did you notice?

What evidence, object or example helped you?

What would you change if you tried again?

Create something

Your project

Create a fraction challenge with model, calculation and explanation for another learner.

Use this space for planning, drawing, mapping, designing or notes.

CHALLENGE

Think deeper

1. Why are common denominators useful?

2. Is $\frac{5}{8}$ greater than $\frac{1}{2}$?

3. What is $\frac{3}{4}$ of 20?

Quick review

1. In one sentence, explain the big idea of “Fractions: Equivalence, Order & Operations”.

2. Draw or write one example that shows you understand.

3. Choose one activity from this pack and explain the strategy you used.

4. Write one question you still have.

Answer & discussion notes

Use these as guidance, not scripts. Open questions can have different successful responses when the reasoning is sensible and evidence-based.

1. Suggested response

They express fractions using equal-sized parts.

2. Suggested response

Yes.

3. Suggested response

15.

Review before publication

Check age fit, factual accuracy, clarity, accessibility, rights provenance and whether the activity works in practice. This file remains a review copy until those checks are signed off.

FINISH

My learning reflection

I finished this BrightPencil learning pack.

One thing I understand better now:

A strategy that helped me:

Something I created or noticed:

My next small question or goal:

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