

GRADE 5 LEARNING PACK

Fractions, Decimals & Percentages

Model, compare and convert common fractions, decimals and percentages as different representations of the same quantity.

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

Model, compare and convert common fractions, decimals and percentages as different representations of the same quantity.

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 Percent means “per hundred”.

2 Fractions, decimals and percentages can represent the same position on a number line.

3 Benchmarks such as 25%, 50% and 75% support estimation and comparison.

Talk about it

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

Match 1/2, 0.5 and 50%.

Convert $\frac{3}{4}$ to a decimal and percentage using hundredths or division.

Place 0.2, 35%, $\frac{1}{2}$ and 0.75 in order.

Find 25% of 80 using quarter reasoning.

Explain why 120% is possible in some comparison contexts.

Try it beyond the page

Real-world / hands-on connection

Use a 100-square to represent several percentages and connect each to a fraction and decimal.

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

Design a three-way representation poster for ten common benchmark quantities.

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

CHALLENGE

Think deeper

1. What does 35% mean?

2. Which is larger: 0.6 or 55%?

3. What is 50% of 46?

Quick review

1. In one sentence, explain the big idea of “Fractions, Decimals & Percentages”.

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

35 out of 100.

2. Suggested response

0.6.

3. Suggested response

23.

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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