

GRADE 2 LEARNING PACK

# Fractions of Shapes & Sets

Represent halves, thirds and quarters as equal parts of shapes and small sets.

**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

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## Learning objective

Represent halves, thirds and quarters as equal parts of shapes and small sets.

## 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

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**1** Fraction parts must be equal in size/value for the model.

**2** The denominator names how many equal parts make the whole.

**3** Fractions can describe shapes, sets and quantities.

## Talk about it

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

Shade  $\frac{1}{2}$  of a rectangle.

Split 12 dots into thirds.

Find  $\frac{1}{4}$  of 16.

Compare  $\frac{1}{2}$  and  $\frac{1}{4}$  of the same whole.

Identify a shape that is not divided into equal quarters.

## Try it beyond the page

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### Real-world / hands-on connection

Fold paper into halves and quarters and compare the equal parts.

### Before you finish

What did you notice?

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What evidence, object or example helped you?

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What would you change if you tried again?

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# Create something

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## Your project

Create a fraction garden with groups showing  $\frac{1}{2}$ ,  $\frac{1}{3}$  and  $\frac{1}{4}$  of different sets.

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

CHALLENGE

# Think deeper

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1. What must be true about fraction parts?

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2. What is  $\frac{1}{4}$  of 16?

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3. Which is larger for the same whole:  $\frac{1}{2}$  or  $\frac{1}{4}$ ?

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# Quick review

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1. In one sentence, explain the big idea of “Fractions of Shapes & Sets”.

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

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

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4. Write one question you still have.

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# Answer & discussion notes

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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 must be equal parts.

## 2. Suggested response

4.

## 3. Suggested response

1/2.

## 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

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I finished this BrightPencil learning pack.

One thing I understand better now:

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A strategy that helped me:

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Something I created or noticed:

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My next small question or goal:

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