



CLASS 6 MATHS · 2026-27

# Fractions, decimals and ratio

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34

QUESTIONS

25

MINUTES

3

EXERCISES

This belongs to \_\_\_\_\_ Date \_\_\_\_\_

## WHAT YOU'LL GET GOOD AT

- Simplifies a fraction by spotting a common factor
- Converts between a fraction and a decimal
- Uses the unitary method on an unfamiliar problem

Take your time, and have a go at every one. If you get stuck, look at the orange box — Ollie has already done one for you.

# Fractions, decimals and ratio

Fractions, decimals and ratio · 34 questions · tick each box as you finish

**Exercise 1 of 3 · 12 questions** Write each fraction in its simplest form.



WRITE THE ANSWER

**HERE'S ONE DONE FOR YOU**

18/24 -> divide both by 6, giving 3/4. Six is the HCF of 18 and 24, so one step is enough. A child dividing by 2 and then by 3 gets the same answer more slowly - and that is fine, but spotting the HCF is what the Class 6 factors chapter was for. Five of these six simplify to 3/4, which is worth noticing.

1) 18/24

2) 45/60

3) 36/48

4) 27/36

5) 50/75

6) 42/56

7) 30/45

8) 64/80

9) 21/28

10) 60/72

11) 35/63

12) 48/54

**Exercise 2 of 3 · 12 questions** Convert between fractions and decimals.

WRITE THE ANSWER

**HERE'S ONE DONE FOR YOU**

$\frac{3}{4}$  as a decimal  $\rightarrow 3 \div 4 = 0.75$ . A fraction is a division waiting to happen, which is the whole idea Class 6 is trying to establish. For 0.6 as a fraction: 0.6 is six tenths, so  $\frac{6}{10}$ , which simplifies to  $\frac{3}{5}$  - and the simplifying step is where marks are lost.

1)  $\frac{1}{2}$  as a decimal2)  $\frac{3}{4}$  as a decimal

3) 0.25 as a fraction

4) 0.6 as a fraction

5)  $\frac{1}{5}$  as a decimal

6) 0.75 as a fraction

7)  $\frac{1}{4}$  as a decimal8)  $\frac{2}{5}$  as a decimal

9) 0.8 as a fraction

10) 0.05 as a fraction

11)  $\frac{3}{10}$  as a decimal

12) 1.5 as a fraction

**Exercise 3 of 3 · 10 questions** Use the unitary method. Show the 'one' step.

WRITE THE ANSWER

**HERE'S ONE DONE FOR YOU**

5 pens cost 60 → one pen costs  $60 \div 5 = 12$ , so 8 pens cost  $12 \times 8 = 96$ . Always find the value of one first. The second question is the tricky kind - more workers means fewer days, so one worker takes  $4 \times 12 = 48$  days, and 6 workers take  $48 \div 6 = 8$ . Ask 'should the answer be bigger or smaller?' before calculating.

**1)** If 5 pens cost 60 rupees, what do 8 pens cost?**2)** If 4 workers finish a job in 12 days, how long for 6 workers?**3)** A recipe for 6 people needs 300 g of rice. How much for 10 people?**4)** If 3 books weigh 1.2 kg, what do 7 books weigh?**5)** If 5 pens cost 60 rupees, what do 15 pens cost?**6)** If 8 identical bricks weigh 12 kg, what do 20 bricks weigh?**7)** A car travels 240 km on 16 litres. How far on 25 litres?**8)** If 6 shirts need 9 m of cloth, how much cloth for 10 shirts?**9)** If 4 taps fill a tank in 30 minutes, how long would 5 taps take?**10)** If 9 kg of rice costs 630 rupees, what does 4 kg cost?**All done? How did that feel?**

Colour in a star. Three stars means you could teach it to someone else.



Tricky · Getting there · Easy now



## Answer key

For grown-ups

Fractions, decimals and ratio · keep this page back until your child has finished.

### 1. Write each fraction in its simplest form.

- 1)  $\frac{3}{4}$
- 2)  $\frac{3}{4}$
- 3)  $\frac{3}{4}$
- 4)  $\frac{3}{4}$
- 5)  $\frac{2}{3}$
- 6)  $\frac{3}{4}$
- 7)  $\frac{2}{3}$
- 8)  $\frac{4}{5}$
- 9)  $\frac{3}{4}$
- 10)  $\frac{5}{6}$
- 11)  $\frac{5}{9}$
- 12)  $\frac{8}{9}$

### 2. Convert between fractions and decimals.

- 1) 0.5
- 2) 0.75
- 3)  $\frac{1}{4}$
- 4)  $\frac{3}{5}$
- 5) 0.2
- 6)  $\frac{3}{4}$
- 7) 0.25
- 8) 0.4
- 9)  $\frac{4}{5}$
- 10)  $\frac{1}{20}$
- 11) 0.3
- 12)  $\frac{3}{2}$  (or  $1 \frac{1}{2}$ )

**3. Use the unitary method. Show the 'one' step.**

- 1) One pen costs 12, so 8 pens cost 96 rupees.
- 2) One worker would take 48 days, so 6 workers take 8 days.
- 3) One person needs 50 g, so 10 people need 500 g.
- 4) One book weighs 0.4 kg, so 7 books weigh 2.8 kg.
- 5) One pen costs 12, so 15 pens cost 180 rupees.
- 6) One brick weighs 1.5 kg, so 20 bricks weigh 30 kg.
- 7) One litre gives 15 km, so 25 litres give 375 km.
- 8) One shirt needs 1.5 m, so 10 shirts need 15 m.
- 9) One tap would take 120 minutes, so 5 taps take 24 minutes.
- 10) One kg costs 70, so 4 kg costs 280 rupees.

**WHILE YOUR CHILD WORKS**

- The 'find one first' step must be written down, not done mentally. It is where the method mark is and where errors become visible.
- For the workers question, ask 'more workers - should it take longer or less time?' before any calculation. That check catches the commonest ratio error.
- If simplifying is slow, the gap is factors and HCF from earlier in Class 6, not fractions.

**Spotted a gap while marking?**

A free assessment is one live class with a matched teacher - no card, nothing to cancel. Afterwards you get an honest note on what they noticed.

**Book a free assessment - [scholur.com/contact](https://scholur.com/contact)**