

GCSE Maths: Mixed numbers and improper fractions (Foundation): answers

GCSE Maths - Fractions - Foundation - Lesson 3.4

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/gcse/maths/ch03-fractions/foundation/mixed-numbers-and-improper-fractions/

Exercise 3D Mixed numbers and improper fractions

Non-calculator

1 Write each improper fraction as a mixed number.

(a) $\frac{7}{2}$

Answer: $3\frac{1}{2}$

(b) $\frac{11}{4}$

Answer: $2\frac{3}{4}$

(c) $\frac{13}{3}$

Answer: $4\frac{1}{3}$

(d) $\frac{19}{5}$

Answer: $3\frac{4}{5}$

(e) $\frac{23}{6}$

Answer: $3\frac{5}{6}$

(f) $\frac{29}{8}$

Answer: $3\frac{5}{8}$

(g) $\frac{41}{9}$

Answer: $4\frac{5}{9}$

(h) $\frac{50}{7}$

Answer: $7\frac{1}{7}$

2 Write each mixed number as an improper fraction.

(a) $1\frac{1}{2}$

Answer: $\frac{3}{2}$

(b) $2\frac{3}{4}$

Answer: $\frac{11}{4}$

(c) $3\frac{2}{5}$

Answer: $\frac{17}{5}$

(d) $4\frac{5}{6}$

Answer: $\frac{29}{6}$

(e) $5\frac{7}{8}$

Answer: $\frac{47}{8}$

(f) $6\frac{1}{9}$

Answer: $\frac{55}{9}$

(g) $10\frac{3}{10}$

Answer: $\frac{103}{10}$

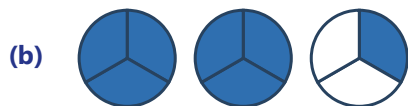
(h) $8\frac{4}{7}$

Answer: $\frac{60}{7}$

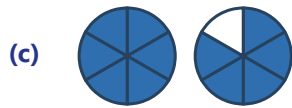
3 Write down the improper fraction and the mixed number shown by each diagram.



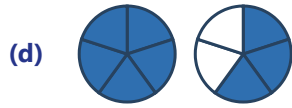
Answer: $\frac{5}{4} = 1\frac{1}{4}$



Answer: $\frac{7}{3} = 2\frac{1}{3}$



Answer: $\frac{11}{6} = 1\frac{5}{6}$



Answer: $\frac{8}{5} = 1\frac{3}{5}$

- 4 Write in order, smallest first: $\frac{7}{4}$, $1\frac{2}{3}$, $\frac{9}{5}$, $1\frac{1}{2}$

Answer: $1\frac{1}{2}$, $1\frac{2}{3}$, $\frac{7}{4}$, $\frac{9}{5}$

- 5 A pizza is cut into 8 slices. There are 21 slices left over. How many pizzas is that? Give your answer as a mixed number.

Answer: $2\frac{5}{8}$ pizzas

- 6 A recipe needs $3\frac{1}{4}$ cups of flour. Rosa measures it using a quarter-cup scoop. How many scoops does she need?

Answer: 13 scoops

- 7 Say whether each statement is true or false.

- (a) $\frac{7}{7}$ is a mixed number

Answer: False. It equals 1.

- (b) $5\frac{2}{3} = \frac{17}{3}$

Answer: True. $5 \times 3 + 2 = 17$

- (c) $\frac{11}{4} = 2\frac{1}{4}$

Answer: False. $\frac{11}{4} = 2\frac{3}{4}$

- 8 **Challenge.** $\frac{n}{5}$ is an improper fraction that lies between 3 and 4. Write down all the possible whole-number values of n .

Answer: 16, 17, 18, 19