

Year 5: Simplifying fractions: answers

Year 5 - Equivalent Fractions and Mixed Numbers - Lesson 6.2

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/ks2-sats/maths/year-5/ch06-fractions/simplifying-fractions/

Exercise 6B Simplifying fractions

Non-calculator

1 Simplify each fraction.

(a) $\frac{2}{4}$

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

(b) $\frac{4}{8}$

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

(c) $\frac{3}{12}$

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

(d) $\frac{2}{6}$

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

(e) $\frac{5}{10}$

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

(f) $\frac{4}{10}$

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

2 Simplify each fraction.

(a) $\frac{3}{9}$

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

(b) $\frac{5}{15}$

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

(c) $\frac{10}{25}$

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

(d) $\frac{6}{15}$

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

(e) $\frac{14}{21}$

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

(f) $\frac{8}{20}$

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

3 Write each fraction in its simplest form.

(a) $\frac{8}{12}$

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

(b) $\frac{9}{15}$

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

(c) $\frac{16}{24}$

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

(d) $\frac{18}{30}$

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

(e) $\frac{20}{32}$

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

(f) $\frac{24}{36}$

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

4 Write each hundredth in its simplest form.

(a) $\frac{25}{100}$

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

(b) $\frac{60}{100}$

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

(c) $\frac{45}{100}$

Answer: $\frac{9}{20}$

(d) $\frac{75}{100}$

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

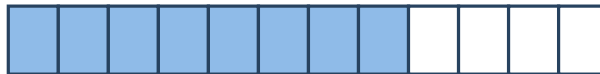
(e) $\frac{8}{100}$

Answer: $\frac{2}{25}$

(f) $\frac{36}{100}$

Answer: $\frac{9}{25}$

5 What fraction of the bar is shaded? Write it in its simplest form.



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

6 Is each fraction in its simplest form? Write yes, or write no and give the simplest form.

(a) $\frac{4}{9}$

Answer: Yes

(b) $\frac{6}{10}$

Answer: No. The simplest form is $\frac{3}{5}$.

(c) $\frac{7}{15}$

Answer: Yes

(d) $\frac{9}{12}$

Answer: No. The simplest form is $\frac{3}{4}$.

(e) $\frac{11}{20}$

Answer: Yes

7 Write each answer as a fraction in its simplest form.

(a) 12 of the 30 pupils in a class walk to school. What fraction walk?

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

(b) Mia reads 18 of the 24 pages of a comic. What fraction has she read?

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

(c) There are 45 stickers in a pack. 15 are blue. What fraction are blue?

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

(d) A ribbon is 50 cm long. Amira cuts off 20 cm. What fraction of the ribbon is cut off?

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

8 Which of these fractions are equal to $\frac{2}{3}$? $\frac{8}{12}$ $\frac{10}{15}$ $\frac{6}{10}$ $\frac{9}{15}$ $\frac{14}{21}$

Answer: $\frac{8}{12}$, $\frac{10}{15}$, $\frac{14}{21}$

9 A fraction simplifies to $\frac{3}{5}$. Its denominator is 35. What is its numerator?

Answer: 21

10 Tom simplifies $\frac{10}{15}$ by taking 5 away from the top and from the bottom. He gets $\frac{5}{10}$. What has he done wrong? What is the correct answer?

Answer: He subtracted instead of dividing. $\frac{2}{3}$

11 Priya simplifies $\frac{24}{36}$ and gets $\frac{12}{18}$. Is her answer in its simplest form? Explain.

Answer: No. The simplest form is $\frac{2}{3}$.

12 Always, sometimes or never?

(a) A fraction with an even top number and an even bottom number can be simplified.

Answer: Always

(b) A proper fraction with a prime number on the bottom can be simplified.

Answer: Never

13 Challenge! Write all the fractions with a denominator of 12 that are bigger than 0 and smaller than 1 and are in their simplest form.

Answer: $\frac{1}{12}$, $\frac{5}{12}$, $\frac{7}{12}$, $\frac{11}{12}$