

Year 5: Equivalent fractions: answers

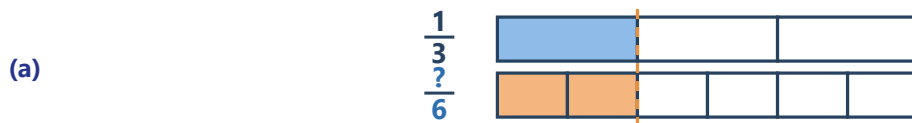
Year 5 - Equivalent Fractions and Mixed Numbers - Lesson 6.1

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/equivalent-fractions/

Exercise 6A Equivalent fractions

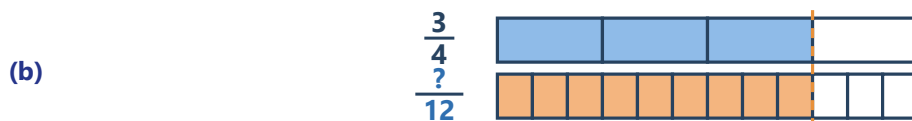
Non-calculator

1 Look at each pair of bars. Write the missing number.



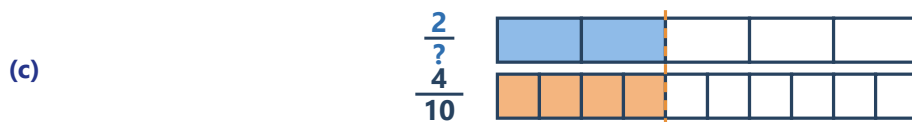
$$\frac{1}{3} = \frac{?}{6}$$

Answer: 2



$$\frac{3}{4} = \frac{?}{12}$$

Answer: 9



$$\frac{2}{?} = \frac{4}{10}$$

Answer: 5

2 Write the missing numerators.

(a) $\frac{1}{3} = \frac{?}{6}$

Answer: 2

(b) $\frac{2}{5} = \frac{?}{10}$

Answer: 4

(c) $\frac{3}{4} = \frac{?}{12}$

Answer: 9

(d) $\frac{5}{6} = \frac{?}{18}$

Answer: 15

(e) $\frac{7}{10} = \frac{?}{100}$

Answer: 70

(f) $\frac{4}{9} = \frac{?}{27}$

Answer: 12

3 Write the missing denominators.

(a) $\frac{2}{3} = \frac{8}{?}$

Answer: 12

(b) $\frac{3}{5} = \frac{12}{?}$

Answer: 20

(c) $\frac{5}{8} = \frac{15}{?}$

Answer: 24

(d) $\frac{7}{10} = \frac{70}{?}$

Answer: 100

(e) $\frac{1}{4} = \frac{5}{?}$

Answer: 20

(f) $\frac{3}{7} = \frac{21}{?}$

Answer: 49

4 Divide the top and the bottom to find the missing number.

(a) $\frac{6}{8} = \frac{?}{4}$

Answer: 3

(b) $\frac{10}{15} = \frac{?}{3}$

Answer: 2

(c) $\frac{12}{16} = \frac{?}{4}$

Answer: 3

(d) $\frac{40}{100} = \frac{?}{10}$

Answer: 4

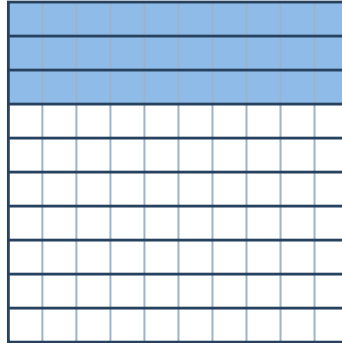
(e) $\frac{9}{12} = \frac{3}{?}$

Answer: 4

(f) $\frac{20}{50} = \frac{2}{?}$

Answer: 5

5 Look at the hundred square.



(a) Write the shaded part as a fraction with a denominator of 100.

Answer: $\frac{30}{100}$

(b) How many tenths are shaded? $\frac{30}{100} = \frac{?}{10}$

Answer: 3

6 Complete each line.

(a) $\frac{7}{10} = \frac{?}{100}$

Answer: 70

(b) $\frac{60}{100} = \frac{?}{10}$

Answer: 6

(c) $\frac{1}{2} = \frac{?}{10}$

Answer: 5

(d) $\frac{3}{5} = \frac{?}{10}$

Answer: 6

(e) $\frac{9}{10} = \frac{?}{100}$

Answer: 90

(f) $\frac{1}{4} = \frac{?}{100}$

Answer: 25

7 Write three equivalent fractions for each fraction by multiplying the top and the bottom by 2, 3 and 4.

(a) $\frac{1}{4}$

Answer: $\frac{2}{8}$, $\frac{3}{12}$, $\frac{4}{16}$

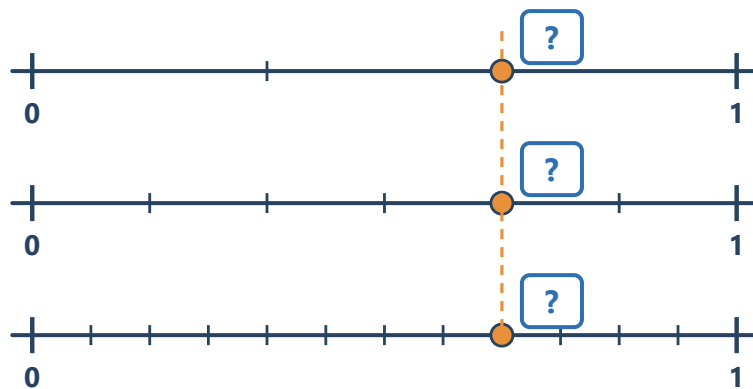
(b) $\frac{2}{3}$

Answer: $\frac{4}{6}$, $\frac{6}{9}$, $\frac{8}{12}$

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

Answer: $\frac{6}{10}$, $\frac{9}{15}$, $\frac{12}{20}$

8 The three number lines show the same point. Write the two missing numbers.



(a) $\frac{2}{3} = \frac{?}{6}$

Answer: 4

(b) $\frac{2}{3} = \frac{?}{12}$

Answer: 8

9 Are these fractions equivalent? Write yes or no.

(a) $\frac{3}{4}$ and $\frac{9}{12}$

Answer: Yes

(b) $\frac{2}{5}$ and $\frac{4}{15}$

Answer: No

(c) $\frac{5}{6}$ and $\frac{10}{12}$

Answer: Yes

(d) $\frac{3}{8}$ and $\frac{6}{12}$

Answer: No

- 10 Which is the odd one out? Explain how you know. $\frac{2}{4}$ $\frac{3}{6}$ $\frac{4}{10}$ $\frac{5}{10}$

Answer: $\frac{4}{10}$

- 11 Which of these fractions are equal to $\frac{3}{4}$? $\frac{6}{8}$ $\frac{9}{12}$ $\frac{8}{12}$ $\frac{12}{16}$ $\frac{15}{24}$

Answer: $\frac{6}{8}$, $\frac{9}{12}$, $\frac{12}{16}$

- 12 Ella eats $\frac{4}{8}$ of a pizza. Sam eats $\frac{2}{4}$ of an identical pizza. Who eats more? Explain.

Answer: Neither. They ate the same amount (one half each).

- 13 Leo says, " $\frac{2}{3} = \frac{4}{5}$ ", because I added 2 to the top and to the bottom." What has Leo done wrong? What should he have written?

Answer: He added instead of multiplying. $\frac{2}{3} = \frac{4}{6}$

- 14 Always, sometimes or never? "Adding 1 to the top and to the bottom of a fraction gives an equivalent fraction."

Answer: Sometimes

- 15 Challenge! Find a fraction that is equivalent to $\frac{2}{3}$ where the top number and the bottom number add up to 35.

Answer: $\frac{14}{21}$