

Year 5: Comparing and ordering fractions: answers

Year 5 - Equivalent Fractions and Mixed Numbers - Lesson 6.3

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/comparing-and-ordering-fractions/

Exercise 6C Comparing and ordering fractions Non-calculator

1 Write < or > in each box. The denominators are the same.

(a) $\frac{3}{8} ? \frac{5}{8}$

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

(b) $\frac{7}{10} ? \frac{4}{10}$

Answer: $\frac{7}{10} > \frac{4}{10}$

(c) $\frac{5}{12} ? \frac{9}{12}$

Answer: $\frac{5}{12} < \frac{9}{12}$

(d) $\frac{6}{7} ? \frac{2}{7}$

Answer: $\frac{6}{7} > \frac{2}{7}$

2 Write < or > in each box. The numerators are the same.

(a) $\frac{1}{3} ? \frac{1}{5}$

Answer: $\frac{1}{3} > \frac{1}{5}$

(b) $\frac{3}{4} ? \frac{3}{8}$

Answer: $\frac{3}{4} > \frac{3}{8}$

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

Answer: $\frac{2}{5} < \frac{2}{3}$

(d) $\frac{5}{6} ? \frac{5}{12}$

Answer: $\frac{5}{6} > \frac{5}{12}$

3 Use the fraction wall to compare.

1							
$\frac{1}{2}$				$\frac{1}{2}$			
$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$	
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

(a) $\frac{1}{2} ? \frac{3}{8}$

Answer: $\frac{1}{2} > \frac{3}{8}$

(b) $\frac{3}{4} ? \frac{5}{8}$

Answer: $\frac{3}{4} > \frac{5}{8}$

(c) $\frac{1}{4} ? \frac{3}{8}$

Answer: $\frac{1}{4} < \frac{3}{8}$

(d) $\frac{7}{8} ? \frac{3}{4}$

Answer: $\frac{7}{8} > \frac{3}{4}$

4 Write < or > in each box.

(a) $\frac{2}{3} ? \frac{5}{6}$

Answer: $\frac{2}{3} < \frac{5}{6}$

(b) $\frac{3}{4} ? \frac{5}{8}$

Answer: $\frac{3}{4} > \frac{5}{8}$

(c) $\frac{7}{10} ? \frac{3}{5}$

Answer: $\frac{7}{10} > \frac{3}{5}$

(d) $\frac{5}{12} ? \frac{1}{3}$

Answer: $\frac{5}{12} > \frac{1}{3}$

(e) $\frac{4}{5} ? \frac{7}{10}$

Answer: $\frac{4}{5} > \frac{7}{10}$

(f) $\frac{1}{2} ? \frac{5}{12}$

Answer: $\frac{1}{2} > \frac{5}{12}$

5 Who has more? Explain how you know.

- (a) Omar drinks $\frac{5}{8}$ of a litre of juice. Nia drinks $\frac{3}{4}$ of a litre. Who drinks more?

Answer: Nia ($\frac{3}{4}$)

- (b) Ravi walks $\frac{3}{10}$ of a mile. Mei walks $\frac{1}{5}$ of a mile. Who walks further?

Answer: Ravi ($\frac{3}{10}$)

6 Write each set in order, smallest first.

- (a) $\frac{3}{10}$ $\frac{1}{2}$ $\frac{2}{5}$

Answer: $\frac{3}{10}$, $\frac{2}{5}$, $\frac{1}{2}$

- (b) $\frac{3}{4}$ $\frac{5}{8}$ $\frac{1}{2}$ $\frac{11}{16}$

Answer: $\frac{1}{2}$, $\frac{5}{8}$, $\frac{11}{16}$, $\frac{3}{4}$

- (c) $\frac{7}{12}$ $\frac{2}{3}$ $\frac{1}{2}$ $\frac{5}{6}$

Answer: $\frac{1}{2}$, $\frac{7}{12}$, $\frac{2}{3}$, $\frac{5}{6}$

- (d) $\frac{4}{5}$ $\frac{7}{10}$ $\frac{3}{5}$ $\frac{9}{10}$

Answer: $\frac{3}{5}$, $\frac{7}{10}$, $\frac{4}{5}$, $\frac{9}{10}$

7 Write each set in order, largest first.

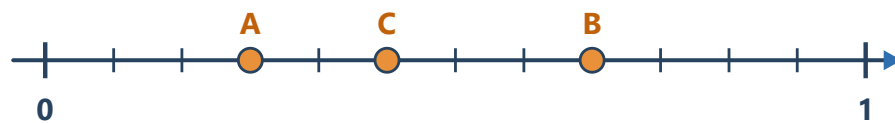
- (a) $\frac{5}{6}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{7}{12}$

Answer: $\frac{5}{6}$, $\frac{3}{4}$, $\frac{2}{3}$, $\frac{7}{12}$

- (b) $\frac{3}{8}$ $\frac{1}{2}$ $\frac{1}{4}$

Answer: $\frac{1}{2}$, $\frac{3}{8}$, $\frac{1}{4}$

8 Look at the number line. Each step is one twelfth.



- (a) Write the fraction for A, for B and for C. Give each as twelfths.

Answer: $\frac{3}{12}$, $\frac{8}{12}$, $\frac{9}{12}$

- (b) Which letter shows the largest fraction?

Answer: B

9 Which whole numbers can go in each box?

(a) $\frac{3}{5} < \frac{?}{10} < \frac{4}{5}$

Answer: 7

(b) $\frac{1}{2} < \frac{?}{8} < \frac{3}{4}$

Answer: 5

(c) $\frac{1}{3} < \frac{?}{12} < \frac{1}{2}$

Answer: 5

(d) $\frac{2}{5} < \frac{?}{20} < \frac{1}{2}$

Answer: 9

10 Which of these fractions are greater than $\frac{1}{2}$? $\frac{3}{8}$ $\frac{5}{8}$ $\frac{4}{10}$ $\frac{7}{12}$ $\frac{6}{12}$

Answer: $\frac{5}{8}$, $\frac{7}{12}$

11 Write < or > in each box.

(a) $1\frac{3}{4} ? 1\frac{5}{8}$

Answer: $1\frac{3}{4} > 1\frac{5}{8}$

(b) $2\frac{1}{2} ? 2\frac{4}{10}$

Answer: $2\frac{1}{2} > 2\frac{4}{10}$

(c) $\frac{9}{4} ? 2\frac{1}{2}$

Answer: $\frac{9}{4} < 2\frac{1}{2}$

(d) $1\frac{7}{8} ? 2$

Answer: $1\frac{7}{8} < 2$

12 Write these in order, smallest first. $1\frac{1}{2}$ $\frac{5}{4}$ $1\frac{7}{8}$ $\frac{11}{8}$

Answer: $\frac{5}{4}$, $\frac{11}{8}$, $1\frac{1}{2}$, $1\frac{7}{8}$

13 Zainab says, " $\frac{5}{8}$ is greater than $\frac{2}{3}$." Is she correct? Prove it.

Answer: No. $\frac{15}{24} < \frac{16}{24}$

14 Leo says, " $\frac{1}{6}$ is greater than $\frac{1}{4}$ because 6 is greater than 4." What mistake has Leo made?

Answer: He compared the denominators. $\frac{1}{6} < \frac{1}{4}$

15 Always, sometimes or never?

(a)

When two fractions have the same denominator, the one with the bigger numerator is the bigger fraction.

Answer: Always

(b) A fraction with a bigger denominator is a smaller fraction.

Answer: Sometimes

16 Challenge! Write a fraction that is between $\frac{2}{5}$ and $\frac{1}{2}$. (Hint: tenths are not enough.)

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