

Comparing Fractions - Worksheet

Skill

Group A - Comparing fractions (like numerators)

Use the correct symbol $<$, $>$ or $=$ to show how the fractions compare:

1) $\frac{1}{2}$ $\frac{1}{3}$

2) $\frac{1}{9}$ $\frac{1}{8}$

3) $\frac{1}{4}$ $\frac{1}{5}$

4) $\frac{3}{9}$ $\frac{3}{7}$

5) $\frac{2}{7}$ $\frac{2}{9}$

6) $\frac{5}{7}$ $\frac{5}{9}$

7) $\frac{2}{7}$ $\frac{2}{5}$

8) $\frac{3}{7}$ $\frac{3}{5}$

9) $\frac{4}{7}$ $\frac{4}{5}$

10) $\frac{5}{9}$ $\frac{5}{13}$

11) $\frac{2}{9}$ $\frac{2}{13}$

12) $\frac{7}{9}$ $\frac{7}{13}$

Group B - Comparing fractions (common denominators)

Use the correct symbol $<$, $>$ or $=$ to show how the fractions compare:

1) $\frac{1}{10}$ $\frac{2}{10}$

2) $\frac{7}{10}$ $\frac{7}{10}$

3) $\frac{5}{10}$ $\frac{2}{10}$

4) $\frac{3}{8}$ $\frac{5}{8}$

5) $\frac{7}{8}$ $\frac{4}{8}$

6) $\frac{9}{8}$ $\frac{7}{8}$

7) $\frac{9}{13}$ $\frac{9}{13}$

8) $\frac{8}{13}$ $\frac{5}{13}$

9) $\frac{11}{13}$ $\frac{12}{13}$

10) $\frac{35}{99}$ $\frac{53}{99}$

11) $\frac{53}{99}$ $\frac{53}{99}$

12) $\frac{32}{99}$ $\frac{23}{99}$

Group C - Comparing fractions (different denominators)

Use the correct symbol $<$, $>$ or $=$ to show how the fractions compare:

1) $\frac{2}{9}$ $\frac{3}{7}$

2) $\frac{2}{3}$ $\frac{1}{2}$

3) $\frac{7}{12}$ $\frac{3}{4}$

4) $\frac{3}{5}$ $\frac{1}{15}$

5) $\frac{1}{6}$ $\frac{2}{12}$

6) $\frac{3}{7}$ $\frac{1}{2}$

7) $\frac{1}{5}$ $\frac{3}{10}$

8) $\frac{11}{12}$ $\frac{3}{4}$

9) $\frac{5}{11}$ $\frac{3}{5}$

10) $\frac{2}{7}$ $\frac{4}{11}$

11) $\frac{7}{9}$ $\frac{3}{5}$

12) $\frac{1}{5}$ $\frac{2}{11}$

Comparing Fractions - Worksheet

Applied

- 1) In a class, $\frac{7}{9}$ of the students are girls, and $\frac{14}{63}$ are boys.

Are there more boys or girls in the class?

- 2) A rugby team wins $\frac{3}{8}$ of their matches in a season.
The same team loses $\frac{1}{3}$ of their matches.

Show that the team wins more matches than they lose.

- 3) Which of the following fractions is nearest to $\frac{9}{10}$?
Show your working.

$$\frac{5}{8} \quad \frac{3}{4} \quad \frac{11}{20} \quad \frac{3}{5}$$

- 4) Janine's annual salary increases by $\frac{3}{7}$
Lawton's annual salary increases by $\frac{2}{5}$

Janine says her salary will increase by more money than Lawton's.

Explain why she may not be correct.

- 5) Four friends are ordering pizza.

Martin eats $\frac{4}{5}$ of a pizza.

Carla eats $\frac{3}{4}$ of a pizza.

Graham eats $\frac{7}{8}$ of a pizza.

Trevor eats $\frac{5}{6}$ of a pizza.

Which person eats the most pizza?

You must show your workings

Comparing Fractions - Exam Questions

- 1) Here are two fractions.

$$\frac{5}{7} \quad \frac{7}{5}$$

Work out which of the fractions is closer to 1.

You must show your working.

.....
(3 marks)

-
- 2) Here are two fractions.

$$\frac{3}{10} \quad \frac{5}{8}$$

Work out which of the fractions is closer to $\frac{1}{2}$.

You must show your working.

.....
(3 marks)

-
- 3) Write down the largest of these three fractions.

$$\frac{3}{5} \quad \frac{11}{20} \quad \frac{1}{2}$$

.....
(2 marks)

-
- 4) Evie bakes cupcakes.

$\frac{1}{4}$ of the cupcakes are lemon.

$\frac{1}{6}$ of the cupcakes are chocolate.

$\frac{1}{3}$ of the cupcakes are blueberry.

Which flavour does she bake the most of?

.....
(3 marks)

Comparing Fractions - Answers

	Question	Answer
	Skill Questions	
Group A	<p>Use the correct symbol $<$, $>$ or $=$ to show how the fractions compare:</p> <p>1) $\frac{1}{2}$ $\frac{1}{3}$</p> <p>2) $\frac{1}{9}$ $\frac{1}{8}$</p> <p>3) $\frac{1}{4}$ $\frac{1}{5}$</p> <p>4) $\frac{3}{9}$ $\frac{3}{7}$</p> <p>5) $\frac{2}{7}$ $\frac{2}{9}$</p> <p>6) $\frac{5}{7}$ $\frac{5}{9}$</p> <p>7) $\frac{2}{7}$ $\frac{2}{5}$</p> <p>8) $\frac{3}{7}$ $\frac{3}{5}$</p> <p>9) $\frac{4}{7}$ $\frac{4}{5}$</p> <p>10) $\frac{5}{9}$ $\frac{5}{13}$</p> <p>11) $\frac{2}{9}$ $\frac{2}{13}$</p> <p>12) $\frac{7}{9}$ $\frac{7}{13}$</p>	<p>1) $\frac{1}{2} > \frac{1}{3}$</p> <p>2) $\frac{1}{9} < \frac{1}{8}$</p> <p>3) $\frac{1}{4} > \frac{1}{5}$</p> <p>4) $\frac{3}{9} < \frac{3}{7}$</p> <p>5) $\frac{2}{7} > \frac{2}{9}$</p> <p>6) $\frac{5}{7} > \frac{5}{9}$</p> <p>7) $\frac{2}{7} < \frac{2}{5}$</p> <p>8) $\frac{3}{7} < \frac{3}{5}$</p> <p>9) $\frac{4}{7} < \frac{4}{5}$</p> <p>10) $\frac{5}{9} > \frac{5}{13}$</p> <p>11) $\frac{2}{9} > \frac{2}{13}$</p> <p>12) $\frac{7}{9} > \frac{7}{13}$</p>

Comparing Fractions - Answers

Group B	Use the correct symbol <, > or = to show how the fractions compare:	
	1) $\frac{1}{10}$ $\frac{2}{10}$	1) $\frac{1}{10} < \frac{2}{10}$
	2) $\frac{7}{10}$ $\frac{7}{10}$	2) $\frac{7}{10} = \frac{7}{10}$
	3) $\frac{5}{10}$ $\frac{2}{10}$	3) $\frac{5}{10} > \frac{2}{10}$
	4) $\frac{3}{8}$ $\frac{5}{8}$	4) $\frac{3}{8} < \frac{5}{8}$
	5) $\frac{7}{8}$ $\frac{4}{8}$	5) $\frac{7}{8} > \frac{4}{8}$
	6) $\frac{9}{8}$ $\frac{7}{8}$	6) $\frac{9}{8} > \frac{7}{8}$
	7) $\frac{9}{13}$ $\frac{9}{13}$	7) $\frac{9}{13} = \frac{9}{13}$
	8) $\frac{8}{13}$ $\frac{5}{13}$	8) $\frac{8}{13} > \frac{5}{13}$
	9) $\frac{11}{13}$ $\frac{12}{13}$	9) $\frac{11}{13} < \frac{12}{13}$
	10) $\frac{35}{99}$ $\frac{53}{99}$	10) $\frac{35}{99} < \frac{53}{99}$
	11) $\frac{53}{99}$ $\frac{53}{99}$	11) $\frac{53}{99} = \frac{53}{99}$
	12) $\frac{32}{99}$ $\frac{23}{99}$	12) $\frac{32}{99} > \frac{23}{99}$

Comparing Fractions - Answers

Group C	Use the correct symbol <, > or = to show how the fractions compare:	
	1) $\frac{2}{9}$ $\frac{3}{7}$	1) $\frac{2}{9} < \frac{3}{7}$
	2) $\frac{2}{3}$ $\frac{1}{2}$	2) $\frac{2}{3} > \frac{1}{2}$
	3) $\frac{7}{12}$ $\frac{3}{4}$	3) $\frac{7}{12} < \frac{3}{4}$
	4) $\frac{3}{5}$ $\frac{1}{15}$	4) $\frac{3}{5} > \frac{1}{15}$
	5) $\frac{1}{6}$ $\frac{2}{12}$	5) $\frac{1}{6} = \frac{2}{12}$
	6) $\frac{3}{7}$ $\frac{1}{2}$	6) $\frac{3}{7} < \frac{1}{2}$
	7) $\frac{1}{5}$ $\frac{3}{10}$	7) $\frac{1}{5} < \frac{3}{10}$
	8) $\frac{11}{12}$ $\frac{3}{4}$	8) $\frac{11}{12} > \frac{3}{4}$
	9) $\frac{5}{11}$ $\frac{3}{5}$	9) $\frac{5}{11} < \frac{3}{5}$
	10) $\frac{2}{7}$ $\frac{4}{11}$	10) $\frac{2}{7} < \frac{4}{11}$
	11) $\frac{7}{9}$ $\frac{3}{5}$	11) $\frac{7}{9} > \frac{3}{5}$
	12) $\frac{1}{5}$ $\frac{2}{11}$	12) $\frac{1}{5} > \frac{2}{11}$

Comparing Fractions - Answers

	Question	Answer
	Applied Questions	
1)	In a class, $\frac{7}{9}$ of the students are girls, and $\frac{14}{63}$ are boys. Are there more boys or girls in the class?	$\frac{7}{9} = \frac{49}{63}$, $\frac{49}{63} > \frac{14}{63}$ There are more girls.
2)	A rugby team wins $\frac{3}{8}$ of their matches in a season. The same team loses $\frac{1}{3}$ of their matches. Show that the team wins more matches than they lose.	$\frac{3}{8} = \frac{9}{24}$, $\frac{1}{3} = \frac{8}{24}$ $\frac{9}{24} > \frac{8}{24}$ Therefore they win more than they lose.
3)	Which of the following fractions is nearest to $\frac{9}{10}$? Show your working. $\frac{5}{8}$ $\frac{3}{4}$ $\frac{11}{20}$ $\frac{3}{5}$	$\frac{5}{8} = \frac{50}{80}$, $\frac{3}{4} = \frac{60}{80}$, $\frac{11}{20} = \frac{44}{80}$, $\frac{3}{5} = \frac{48}{80}$, $\frac{9}{10} = \frac{72}{80}$ $\frac{3}{4}$ is nearest to $\frac{9}{10}$
4)	Janine's annual salary increases by $\frac{3}{7}$ Lawton's annual salary increases by $\frac{2}{5}$ Janine says her salary will increase by more money than Lawton's. Explain why she may not be correct.	$\frac{3}{7} = \frac{15}{35}$ $\frac{2}{5} = \frac{14}{35}$ $\frac{3}{7} > \frac{2}{5}$ Janine would only have a greater increase if they earned the same amount of money. Lawton may already earn more.
5)	Four friends are ordering pizza. Martin eats $\frac{4}{5}$ of a pizza. Carla eats $\frac{3}{4}$ of a pizza. Graham eats $\frac{7}{8}$ of a pizza. Trevor eats $\frac{5}{6}$ of a pizza. Which person eats the most pizza? You must show your workings	$\frac{4}{5} = \frac{96}{120}$ $\frac{3}{4} = \frac{90}{120}$ $\frac{7}{8} = \frac{105}{120}$ $\frac{5}{6} = \frac{100}{120}$ Graham eats the most pizza.

Comparing Fractions - Mark Scheme

	Question	Answer
	Exam Questions	
1)	<p>Here are two fractions.</p> $\frac{5}{7} \quad \frac{7}{5}$ <p>Work out which of the fractions is closer to 1.</p> <p>You must show your working.</p>	$\frac{5}{7} = \frac{25}{35} \text{ (1)}$ $\frac{7}{5} = \frac{49}{35} \text{ (1)}$ $\frac{5}{7} \text{ (1)}$ <p>(3)</p>
2)	<p>Here are two fractions.</p> $\frac{3}{10} \quad \frac{5}{8}$ <p>Work out which of the fractions is closer to $\frac{1}{2}$.</p> <p>You must show your working.</p>	$\frac{3}{10} = \frac{24}{80} \text{ (1)}$ $\frac{5}{8} = \frac{50}{80} \text{ (1)}$ $\frac{5}{8} \text{ (1)}$ <p>(3)</p>
3)	<p>Write down the largest of these three fractions.</p> $\frac{3}{5} \quad \frac{11}{20} \quad \frac{1}{2}$	$\frac{3}{5} = \frac{12}{20} \text{ and } \frac{1}{2} = \frac{10}{20} \text{ (1)}$ $\frac{3}{5} \text{ (1)}$ <p>(2)</p>
4)	<p>Evie bakes cupcakes.</p> <p>$\frac{1}{4}$ of the cupcakes are lemon.</p> <p>$\frac{1}{6}$ of the cupcakes are chocolate.</p> <p>$\frac{1}{3}$ of the cupcakes are blueberry.</p> <p>Which flavour does she bake the most of?</p>	$\frac{1}{4} = \frac{3}{12}$ $\frac{1}{6} = \frac{2}{12}$ $\frac{1}{3} = \frac{4}{12}$ <p>One correct fraction conversion (1)</p> <p>All 3 correct fraction conversions (1)</p> <p>Blueberry (1)</p> <p>(3)</p>

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