

Ordering Fractions - Worksheet

Skill

Group A - Ordering proper fractions

Write these fractions in ascending order:

1) $\frac{1}{3}, \frac{3}{4}, \frac{1}{4}, \frac{5}{6}$

2) $\frac{1}{4}, \frac{1}{2}, \frac{5}{8}, \frac{3}{4}$

3) $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{2}{3}$

4) $\frac{3}{8}, \frac{1}{2}, \frac{1}{3}, \frac{2}{3}$

5) $\frac{1}{6}, \frac{1}{3}, \frac{2}{3}, \frac{1}{5}$

6) $\frac{5}{6}, \frac{2}{3}, \frac{3}{8}, \frac{1}{2}$

7) $\frac{9}{10}, \frac{3}{8}, \frac{3}{5}, \frac{7}{10}$

8) $\frac{3}{7}, \frac{2}{3}, \frac{5}{6}, \frac{1}{3}$

9) $\frac{5}{9}, \frac{1}{3}, \frac{1}{2}, \frac{7}{9}$

10) $\frac{2}{9}, \frac{2}{3}, \frac{1}{4}, \frac{1}{2}$

11) $\frac{5}{6}, \frac{1}{7}, \frac{2}{7}, \frac{1}{3}$

12) $\frac{2}{5}, \frac{3}{4}, \frac{1}{2}, \frac{3}{5}$

Group B - Ordering improper fractions and mixed numbers

Write these fractions in ascending order:

1) $\frac{11}{12}, \frac{3}{2}, \frac{5}{3}$

2) $1\frac{3}{12}, \frac{3}{2}, \frac{5}{3}$

3) $\frac{3}{2}, \frac{5}{3}, \frac{13}{12}$

4) $\frac{7}{12}, 1\frac{1}{2}, \frac{5}{3}$

5) $\frac{3}{2}, \frac{5}{3}, \frac{7}{6}$

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

7) $\frac{2}{3}, \frac{7}{9}, \frac{5}{6}, \frac{11}{18}$

8) $\frac{3}{2}, 1\frac{3}{7}, \frac{6}{5}, 2\frac{1}{4}$

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

10) $5, \frac{4}{5}, \frac{7}{8}$

11) $3, \frac{7}{6}, \frac{7}{3}$

12) $3, 2\frac{5}{6}, \frac{7}{3}$

Group C - Ordering fractions and decimals

Write these fractions and decimals in ascending order:

1) $\frac{7}{10}, 0.65, 1, \frac{6}{10}$

2) $\frac{7}{8}, 0.65, 1, \frac{6}{8}$

3) $\frac{4}{8}, 0.65, 1, \frac{6}{8}$

4) $\frac{4}{8}, 0.8, 1, \frac{6}{8}$

5) $\frac{4}{5}, 0.75, 1, \frac{6}{5}$

6) $\frac{4}{5}, 0.75, 1.25, \frac{6}{5}$

7) $\frac{5}{8}, 0.75, 1.25, \frac{1}{8}$

8) $\frac{5}{8}, 1\frac{1}{8}, 1.25, \frac{1}{8}$

9) $\frac{4}{5}, 0.7, 0.88, \frac{8}{9}$

10) $\frac{5}{4}, 1.3, \frac{4}{3}, \frac{9}{8}$

11) $\frac{5}{4}, 0.7, 0.88, \frac{8}{9}$

12) $1.22, 1.3, \frac{4}{3}, \frac{9}{8}$

Ordering Fractions - Worksheet

Applied

- 1) Which of the following fractions is nearest to $\frac{7}{10}$?
Show your working.

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

- 2) Work out the median of the following set of numbers:

$$\frac{1}{3}, \quad \frac{2}{5}, \quad \frac{1}{4}, \quad \frac{3}{10}, \quad \frac{3}{20}$$

- 3) Here are two fractions: $\frac{7}{6}$, $\frac{6}{7}$. Work out which fraction is closer to 1.
Show your working.

- 4) Here are two fractions: $\frac{3}{10}$, $\frac{5}{7}$. Work out which fraction is closer to $\frac{1}{2}$.
Show your working.

Ordering Fractions - Exam Questions

- 1) (a) Write the following fractions in order of size. Start with the smallest fraction.

$$\frac{1}{6}, \frac{4}{15}, \frac{1}{5}, \frac{1}{3}, \frac{7}{30}$$

.....
(2)

- (b) Find the median.

.....
(1)
(3 marks)

-
- 2) Arrange these fractions in order, smallest first.

$$\frac{2}{3}, \frac{7}{9}, \frac{5}{6}, \frac{11}{18}$$

.....
(2 marks)

-
- 3) (a) Convert 0.12 into a fraction.

.....
(1)

- (b) Convert 0.15 into a fraction.

.....
(1)

Ordering Fractions - Exam Questions

- (c) Write these numbers in ascending order.

$$\frac{1}{2}, 0.12, \frac{1}{5}, 0.15$$

.....
(2)
(4 marks)

-
- 4) (a) Write these numbers in ascending order.

$$0.28, \frac{3}{25}, 0.32, \frac{2}{5}, \frac{3}{10}$$

.....
(2)

- (b) Find the median.

.....
(1)
(3 marks)

Ordering Fractions - Answers

	Question	Answer
	Skill Questions	
Group A	<p>Write these fractions in ascending order:</p> <p>1) $\frac{1}{3}, \frac{3}{4}, \frac{1}{4}, \frac{5}{6}$</p> <p>2) $\frac{1}{4}, \frac{1}{2}, \frac{5}{8}, \frac{3}{4}$</p> <p>3) $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{2}{3}$</p> <p>4) $\frac{3}{8}, \frac{1}{2}, \frac{1}{3}, \frac{2}{3}$</p> <p>5) $\frac{1}{6}, \frac{1}{3}, \frac{2}{3}, \frac{1}{5}$</p> <p>6) $\frac{5}{6}, \frac{2}{3}, \frac{3}{8}, \frac{1}{2}$</p> <p>7) $\frac{9}{10}, \frac{3}{8}, \frac{3}{5}, \frac{7}{10}$</p> <p>8) $\frac{3}{7}, \frac{2}{3}, \frac{5}{6}, \frac{1}{3}$</p> <p>9) $\frac{5}{9}, \frac{1}{3}, \frac{1}{2}, \frac{7}{9}$</p> <p>10) $\frac{2}{9}, \frac{2}{3}, \frac{1}{4}, \frac{1}{2}$</p> <p>11) $\frac{5}{6}, \frac{1}{7}, \frac{2}{7}, \frac{1}{3}$</p> <p>12) $\frac{2}{5}, \frac{3}{4}, \frac{1}{2}, \frac{3}{5}$</p>	<p>1) $\frac{1}{4}, \frac{1}{3}, \frac{3}{4}, \frac{5}{6}$</p> <p>2) $\frac{1}{4}, \frac{1}{2}, \frac{5}{8}, \frac{3}{4}$</p> <p>3) $\frac{1}{4}, \frac{1}{3}, \frac{1}{2}, \frac{2}{3}$</p> <p>4) $\frac{1}{3}, \frac{3}{8}, \frac{1}{2}, \frac{2}{3}$</p> <p>5) $\frac{1}{6}, \frac{1}{5}, \frac{1}{3}, \frac{2}{3}$</p> <p>6) $\frac{3}{8}, \frac{1}{2}, \frac{2}{3}, \frac{5}{6}$</p> <p>7) $\frac{3}{8}, \frac{3}{5}, \frac{7}{10}, \frac{9}{10}$</p> <p>8) $\frac{1}{3}, \frac{3}{7}, \frac{2}{3}, \frac{5}{6}$</p> <p>9) $\frac{1}{3}, \frac{1}{2}, \frac{5}{9}, \frac{7}{9}$</p> <p>10) $\frac{2}{9}, \frac{1}{4}, \frac{1}{2}, \frac{2}{3}$</p> <p>11) $\frac{1}{7}, \frac{2}{7}, \frac{1}{3}, \frac{5}{6}$</p> <p>12) $\frac{2}{5}, \frac{1}{2}, \frac{3}{5}, \frac{3}{4}$</p>

Ordering Fractions - Answers

Group B	Write these fractions and decimals in ascending order:	
	1) $\frac{11}{12}, \frac{3}{2}, \frac{5}{3}$	1) $\frac{11}{12}, \frac{3}{2}, \frac{5}{3}$
	2) $1\frac{3}{12}, \frac{3}{2}, \frac{5}{3}$	2) $1\frac{3}{12}, \frac{3}{2}, \frac{5}{3}$
	3) $\frac{3}{2}, \frac{5}{3}, \frac{13}{12}$	3) $\frac{13}{12}, \frac{3}{2}, \frac{5}{3}$
	4) $\frac{7}{12}, 1\frac{1}{2}, \frac{5}{3}$	4) $\frac{7}{12}, 1\frac{1}{2}, \frac{5}{3}$
	5) $\frac{3}{2}, \frac{5}{3}, \frac{7}{6}$	5) $\frac{7}{6}, \frac{3}{2}, \frac{5}{3}$
	6) $\frac{3}{2}, 2\frac{1}{3}, \frac{7}{6}$	6) $\frac{7}{6}, \frac{3}{2}, 2\frac{1}{3}$
	7) $\frac{2}{3}, \frac{7}{9}, \frac{5}{6}, \frac{11}{18}$	7) $\frac{11}{18}, \frac{2}{3}, \frac{7}{9}, \frac{5}{6}$
	8) $\frac{3}{2}, 1\frac{3}{7}, \frac{6}{5}, 2\frac{1}{4}$	8) $\frac{6}{5}, 1\frac{3}{7}, \frac{3}{2}, 2\frac{1}{4}$
	9) $\frac{1}{2}, 1\frac{2}{7}, 1\frac{1}{5}, \frac{3}{4}$	9) $\frac{1}{2}, \frac{3}{4}, 1\frac{1}{5}, 1\frac{2}{7}$
	10) $5, \frac{4}{5}, \frac{7}{8}$	10) $\frac{4}{5}, \frac{7}{8}, 5$
	11) $3, \frac{7}{6}, \frac{7}{3}$	11) $\frac{7}{6}, \frac{7}{3}, 3$
	12) $3, 2\frac{5}{6}, \frac{7}{3}$	12) $\frac{7}{3}, 2\frac{5}{6}, 3$

Ordering Fractions - Answers

Group C	<p>Write these fractions and decimals in ascending order:</p> <p>1) $\frac{7}{10}$, 0.65, 1, $\frac{6}{10}$</p> <p>2) $\frac{7}{8}$, 0.65, 1, $\frac{6}{8}$</p> <p>3) $\frac{4}{8}$, 0.65, 1, $\frac{6}{8}$</p> <p>4) $\frac{4}{8}$, 0.8, 1, $\frac{6}{8}$</p> <p>5) $\frac{4}{5}$, 0.75, 1, $\frac{6}{5}$</p> <p>6) $\frac{4}{5}$, 0.75, 1.25, $\frac{6}{5}$</p> <p>7) $\frac{5}{8}$, 0.75, 1.25, $\frac{1}{8}$</p> <p>8) $\frac{5}{8}$, $1\frac{1}{8}$, 1.25, $\frac{1}{8}$</p> <p>9) $\frac{4}{5}$, 0.7, 0.88, $\frac{8}{9}$</p> <p>10) $\frac{5}{4}$, 1.3, $\frac{4}{3}$, $\frac{9}{8}$</p> <p>11) $\frac{5}{4}$, 0.7, 0.88, $\frac{8}{9}$</p> <p>12) 1.22, 1.3, $\frac{4}{3}$, $\frac{9}{8}$</p>	<p>1) $\frac{6}{10}$, 0.65, $\frac{7}{10}$, 1</p> <p>2) 0.65, $\frac{6}{8}$, $\frac{7}{8}$, 1</p> <p>3) $\frac{4}{8}$, 0.65, $\frac{6}{8}$, 1</p> <p>4) $\frac{4}{8}$, $\frac{6}{8}$, 0.8, 1</p> <p>5) 0.75, $\frac{4}{5}$, 1, $\frac{6}{5}$</p> <p>6) 0.75, $\frac{4}{5}$, $\frac{6}{5}$, 1.25</p> <p>7) $\frac{1}{8}$, $\frac{5}{8}$, 0.75, 1.25</p> <p>8) $\frac{1}{8}$, $\frac{5}{8}$, $1\frac{1}{8}$, 1.25</p> <p>9) 0.7, $\frac{4}{5}$, 0.88, $\frac{8}{9}$</p> <p>10) $\frac{9}{8}$, $\frac{5}{4}$, 1.3, $\frac{4}{3}$</p> <p>11) 0.7, 0.88, $\frac{8}{9}$, $\frac{5}{4}$</p> <p>12) $\frac{9}{8}$, 1.22, 1.3, $\frac{4}{3}$</p>
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Ordering Fractions - Answers

	Question	Answer
	Applied Questions	
1)	Which of the following fractions is nearest to $\frac{7}{10}$? Show your working. $\frac{5}{8}, \frac{3}{4}, \frac{11}{20}, \frac{3}{5}$	$\frac{3}{4}$ $\frac{7}{10} = 0.7$ $\frac{5}{8} = 0.625$ $\frac{3}{4} = 0.75$ $\frac{11}{20} = 0.55$ $\frac{3}{5} = 0.6$
2)	Work out the median of the following set of numbers: $\frac{1}{3}, \frac{2}{5}, \frac{1}{4}, \frac{3}{10}, \frac{3}{20}$	$\frac{3}{10}$ $\frac{1}{3} = \frac{20}{60} = 0.3333\dots$ $\frac{2}{5} = \frac{24}{60} = 0.4$ $\frac{1}{4} = \frac{15}{60} = 0.25$ $\frac{3}{10} = \frac{18}{60} = 0.3$ $\frac{3}{20} = \frac{9}{60} = 0.15$
3)	Here are two fractions: $\frac{7}{6}, \frac{6}{7}$. Work out which fraction is closer to 1. Show your working.	$\frac{6}{7}$ $\frac{6}{7} = \frac{36}{42}, \frac{6}{42}$ away from 1 $\frac{7}{6} = \frac{49}{42}, \frac{7}{42}$ away from 1
4)	Here are two fractions: $\frac{3}{10}, \frac{5}{7}$. Work out which fraction is closer to $\frac{1}{2}$. Show your working.	$\frac{3}{10}$ $\frac{1}{2} = \frac{35}{70}$ $\frac{3}{10} = \frac{21}{70}, \frac{14}{70}$ away from $\frac{1}{2}$ $\frac{5}{7} = \frac{50}{70}, \frac{15}{70}$ away from $\frac{1}{2}$

Ordering Fractions - Mark Scheme

	Question	Answer	
	Exam Questions		
1) (a)	Write the following fractions in order of size. Start with the smallest fraction. $\frac{1}{6}, \frac{4}{15}, \frac{1}{5}, \frac{1}{3}, \frac{7}{30}$	(a) $\frac{5}{30}, \frac{8}{30}, \frac{6}{30}, \frac{10}{30}, \frac{7}{30}$ Any 2 correct conversions $\frac{1}{6}, \frac{1}{5}, \frac{7}{30}, \frac{4}{15}, \frac{1}{3}$	(1) (1)
(b)	Find the median.	(b) $\frac{7}{30}$	(1)
2)	Arrange these fractions in order, smallest first. $\frac{2}{3}, \frac{7}{9}, \frac{5}{6}, \frac{11}{18}$	$\frac{12}{18}, \frac{14}{18}, \frac{15}{18}, \frac{11}{18}$ Any 2 correct conversions $\frac{11}{18}, \frac{2}{3}, \frac{7}{9}, \frac{5}{6}$	(1) (1)
3) (a)	Convert 0.12 into a fraction.	(a) $\frac{12}{100}$ or equivalent e.g., $\frac{6}{50}, \frac{3}{25}$	(1)
(b)	Convert 0.15 into a fraction.	(b) $\frac{15}{100}$ or equivalent e.g., $\frac{3}{20}$	(1)
(c)	Write these numbers in ascending order. $\frac{1}{2}, 0.12, \frac{1}{5}, 0.15$	(c) Correct conversion for $\frac{1}{2}$ or $\frac{1}{5}$, e.g., $\frac{50}{100}$ or $\frac{20}{100}$ or 0.5 or 0.2 $0.12, 0.15, \frac{1}{5}, \frac{1}{2}$	(1) (1)
4) (a)	Write these numbers in ascending order. $0.28, \frac{3}{25}, 0.32, \frac{2}{5}, \frac{3}{10}$	(a) $\frac{28}{100}, \frac{12}{100}, \frac{32}{100}, \frac{40}{100}, \frac{30}{100}$ Any 2 correct conversions $\frac{3}{25}, 0.28, \frac{3}{10}, 0.32, \frac{2}{5}$	(1) (1)
(b)	Find the median.	(b) $\frac{3}{10}$	(1)

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