Equivalent Fractions & Ordering Fractions - Worksheet

Skill

Group A - Simplifying fractions

Write these fractions in their simplest form:

1) $\frac{2}{8}$ **2)** $\frac{2}{10}$ **3)** $\frac{2}{14}$

4) $\frac{3}{6}$ **5)** $\frac{3}{9}$ **6)** $\frac{3}{21}$

7) $\frac{10}{15}$ **8)** $\frac{10}{25}$ **9)** $\frac{10}{55}$

10) $\frac{9}{18}$ **11)** $\frac{9}{36}$ **12)** $\frac{9}{72}$

Group B - Simplifying fractions

Write these fractions in their simplest form:

1) $\frac{4}{20}$ **2)** $\frac{4}{24}$ **3)** $\frac{4}{32}$

4) $\frac{6}{24}$ **5)** $\frac{6}{36}$ **6)** $\frac{6}{42}$

7) $\frac{12}{24}$ **8)** $\frac{12}{40}$ **9)** $\frac{12}{56}$

10) $\frac{20}{24}$ **11)** $\frac{20}{48}$ **12)** $\frac{20}{55}$

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Group C - Equivalent fractions

Finding the missing value in the following pairs of equivalent fractions:

1) $\frac{1}{2} = \frac{?}{6}$ **2)** $\frac{1}{2} = \frac{?}{10}$ **3)** $\frac{1}{2} = \frac{?}{14}$

4) $\frac{3}{4} = \frac{?}{12}$ **5)** $\frac{3}{4} = \frac{?}{20}$ **6)** $\frac{3}{4} = \frac{?}{36}$

7) $\frac{2}{5} = \frac{?}{10}$ **8)** $\frac{2}{5} = \frac{?}{20}$ **9)** $\frac{2}{5} = \frac{?}{35}$

10) $\frac{5}{8} = \frac{?}{16}$ **11)** $\frac{5}{8} = \frac{?}{32}$ **12)** $\frac{5}{8} = \frac{?}{40}$

Equivalent Fractions & Ordering Fractions - Worksheet

Applied

1) Write these fractions in order of size:

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

(b) $\frac{5}{6}, \frac{3}{4}, \frac{2}{3}, \frac{7}{12}$

2) Write these fractions in order of size:

(a) $1\frac{1}{2}, \frac{5}{4}, 1\frac{5}{8}, \frac{17}{16}$

(b) $\frac{5}{2}, 2\frac{3}{4}, 2\frac{2}{3}, \frac{13}{6}$

3) Write these numbers in order of size:

(a) $\frac{1}{5}, 0.3, 0.29, \frac{1}{4}$

(b) $1.7, \frac{5}{3}, 1\frac{3}{4}, 1.62$

Equivalent Fractions & Ordering Fractions - Exam Questions

1) Here is a list of 4 fractions.

$\frac{2}{6}$, $\frac{12}{36}$, $\frac{6}{24}$, $\frac{5}{15}$

One of these fractions is **not** equal to $\frac{1}{3}$.

Write down this fraction.

.....

(1 mark)

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2) **(a)** Show that $\frac{5}{6}$ is smaller than $\frac{6}{7}$.

.....

(2)

(b) Using equivalent fractions, find a fraction which is bigger than $\frac{2}{7}$ but smaller than $\frac{3}{8}$.

.....

(2)

(4 marks)

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3) Here are four fractions.

$\frac{4}{5}$, $\frac{3}{4}$, $\frac{15}{19}$, $\frac{13}{17}$

Write the fractions in order of size.

Starting with the smallest fraction.

.....

(2 marks)

Equivalent Fractions & Ordering Fractions - Answers

	Question	Answer
Group A	Skill Questions	
	Write these fractions in their simplest form: **1)** $\frac{2}{8}$ **2)** $\frac{2}{10}$ **3)** $\frac{2}{14}$ **4)** $\frac{3}{6}$ **5)** $\frac{3}{9}$ **6)** $\frac{3}{21}$ **7)** $\frac{10}{15}$ **8)** $\frac{10}{25}$ **9)** $\frac{10}{55}$ **10)** $\frac{9}{18}$ **11)** $\frac{9}{36}$ **12)** $\frac{9}{72}$	**1)** $\frac{1}{4}$ **2)** $\frac{1}{5}$ **3)** $\frac{1}{7}$ **4)** $\frac{1}{2}$ **5)** $\frac{1}{3}$ **6)** $\frac{1}{7}$ **7)** $\frac{2}{3}$ **8)** $\frac{2}{5}$ **9)** $\frac{2}{11}$ **10)** $\frac{1}{2}$ **11)** $\frac{1}{4}$ **12)** $\frac{1}{8}$

Equivalent Fractions & Ordering Fractions - Answers

Group B	Write these fractions in their simplest form: **1)** $\frac{4}{20}$ **2)** $\frac{4}{24}$ **3)** $\frac{4}{32}$ **4)** $\frac{6}{24}$ **5)** $\frac{6}{36}$ **6)** $\frac{6}{42}$ **7)** $\frac{12}{24}$ **8)** $\frac{12}{40}$ **9)** $\frac{12}{56}$ **10)** $\frac{20}{24}$ **11)** $\frac{20}{48}$ **12)** $\frac{20}{55}$	**1)** $\frac{1}{5}$ **2)** $\frac{1}{6}$ **3)** $\frac{1}{8}$ **4)** $\frac{1}{4}$ **5)** $\frac{1}{6}$ **6)** $\frac{1}{7}$ **7)** $\frac{1}{2}$ **8)** $\frac{3}{10}$ **9)** $\frac{3}{14}$ **10)** $\frac{5}{6}$ **11)** $\frac{5}{12}$ **12)** $\frac{4}{11}$

Equivalent Fractions & Ordering Fractions - Answers

Group C	Finding the missing value in the following pairs of equivalent fractions: **1)** $\frac{1}{2} = \frac{?}{6}$ **2)** $\frac{1}{2} = \frac{?}{10}$ **3)** $\frac{1}{2} = \frac{?}{14}$ **4)** $\frac{3}{4} = \frac{?}{12}$ **5)** $\frac{3}{4} = \frac{?}{20}$ **6)** $\frac{3}{4} = \frac{?}{36}$ **7)** $\frac{2}{5} = \frac{?}{10}$ **8)** $\frac{2}{5} = \frac{?}{20}$ **9)** $\frac{2}{5} = \frac{?}{35}$ **10)** $\frac{5}{8} = \frac{?}{16}$ **11)** $\frac{5}{8} = \frac{?}{32}$ **12)** $\frac{5}{8} = \frac{?}{40}$	**1)** 3 **2)** 5 **3)** 7 **4)** 9 **5)** 15 **6)** 27 **7)** 4 **8)** 8 **9)** 14 **10)** 10 **11)** 20 **12)** 25

Equivalent Fractions & Ordering Fractions - Answers

	Question	Answer
	Applied Questions	
1)	Write these fractions in order of size: **(a)** $\frac{1}{2}, \frac{3}{4}, \frac{3}{8}, \frac{1}{4}$ **(b)** $\frac{5}{6}, \frac{3}{4}, \frac{2}{3}, \frac{7}{12}$	**(a)** $\frac{1}{4}, \frac{3}{8}, \frac{1}{2}, \frac{3}{4}$ **(b)** $\frac{7}{12}, \frac{2}{3}, \frac{3}{4}, \frac{5}{6}$
2)	Write these fractions in order of size: **(a)** $1\frac{1}{2}, \frac{5}{4}, 1\frac{5}{8}, \frac{17}{16}$ **(b)** $\frac{5}{2}, 2\frac{3}{4}, 2\frac{2}{3}, \frac{13}{6}$	**(a)** $\frac{17}{16}, \frac{5}{4}, 1\frac{1}{2}, 1\frac{5}{8}$ **(b)** $\frac{13}{6}, \frac{5}{2}, 2\frac{2}{3}, 2\frac{3}{4}$
3)	Write these numbers in order of size: **(a)** $\frac{1}{5}, 0.3, 0.29, \frac{1}{4}$ **(b)** $1.7, \frac{5}{3}, 1\frac{3}{4}, 1.62$	**(a)** $\frac{1}{5}, \frac{1}{4}, 0.29, 0.3$ **(b)** $1.62, \frac{5}{3}, 1.7, 1\frac{3}{4}$

Equivalent Fractions & Ordering Fractions - Mark Scheme

	Question	Answer	
	Exam Questions		
1) (a)	Here is a list of 4 fractions. $\frac{2}{6}, \frac{12}{36}, \frac{6}{24}, \frac{5}{15}$ One of these fractions is **not** equal to $\frac{1}{3}$. Write down this fraction.	$\frac{6}{24} = \frac{1}{4}$ So $\frac{6}{24}$ is not equal to $\frac{1}{3}$. **(1)**	**(1)**
2) (a)	Show that $\frac{5}{6}$ is smaller than $\frac{6}{7}$.	**(a)** $\frac{5}{6} = \frac{35}{42}$ $\frac{6}{7} = \frac{36}{42}$ For one equivalent fraction **(1)** For both equivalent fractions **(1)**	**(2)**
(b)	Using equivalent fractions, find a fraction which is bigger than $\frac{2}{7}$ but smaller than $\frac{3}{8}$.	**(b)** $\frac{2}{7} = \frac{16}{56}$ $\frac{3}{8} = \frac{21}{56}$ For one equivalent fraction **(1)** $\frac{17}{56}$ or $\frac{18}{56}$ or $\frac{19}{56}$ or $\frac{20}{56}$ In their simplest form For a correct fraction **(1)** $\frac{17}{56}$ or $\frac{9}{28}$ or $\frac{19}{56}$ or $\frac{5}{14}$	**(2)**

Equivalent Fractions & Ordering Fractions - Mark Scheme

3)	Here are four fractions. $\frac{4}{5}, \frac{3}{4}, \frac{15}{19}, \frac{13}{17}$ Write the fractions in order of size. Starting with the smallest fraction.	$\frac{4}{5} = 0.8$ $\frac{3}{4} = 0.75$ $\frac{15}{19} = 0.7894...$ $\frac{13}{17} = 0.7647...$ Conversion of at least 2 fractions into decimals or equivalent fractions **(1)** $\frac{3}{4}, \frac{13}{17}, \frac{15}{19}, \frac{4}{5}$ For the correct answer **(1)**	**(2)**