

Ma 9
1.3

Equivalent Fractions.

$$\frac{1}{2} = \frac{\quad}{4}$$

$$\frac{1}{8} = \frac{\quad}{24}$$

$$\frac{2}{9} = \frac{\quad}{18} = \frac{\quad}{27}$$

$$\frac{1}{4} = \frac{\quad}{12} = \frac{\quad}{16} = \frac{\quad}{20}$$

$$\frac{1}{4} = \frac{\quad}{8}$$

$$\frac{3}{4} = \frac{\quad}{8}$$

$$\frac{2}{3} = \frac{\quad}{6} = \frac{\quad}{9}$$

$$\frac{3}{4} = \frac{\quad}{12} = \frac{\quad}{16} = \frac{\quad}{24}$$

$$\frac{1}{3} = \frac{\quad}{9}$$

$$\frac{2}{7} = \frac{\quad}{14}$$

$$\frac{2}{5} = \frac{\quad}{10} = \frac{\quad}{15}$$

$$\frac{1}{2} = \frac{\quad}{50} = \frac{\quad}{100} = \frac{\quad}{200}$$

Reduce to Lowest Terms.

$$\frac{16}{20} = \frac{\quad}{10} = \frac{\quad}{5}$$

$$\frac{50}{100} =$$

$$\frac{5}{20} =$$

$$\frac{11}{33} =$$

$$\frac{4}{12} = \frac{\quad}{6} = \frac{\quad}{3}$$

$$\frac{12}{30} =$$

$$\frac{3}{9} =$$

$$\frac{20}{30} =$$

$$\frac{12}{16} = \frac{\quad}{8} = \frac{\quad}{4}$$

$$\frac{16}{18} =$$

$$\frac{8}{18} =$$

$$\frac{7}{28} =$$

Change to Mixed Numbers. Reduce.

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

$$\frac{14}{3} =$$

$$\frac{48}{5} =$$

$$\frac{17}{4} =$$

$$\frac{16}{8} =$$

$$\frac{14}{4} =$$

$$\frac{15}{2} =$$

$$\frac{28}{8} =$$

$$\frac{8}{5} =$$

$$\frac{20}{12} =$$

$$\frac{68}{11} =$$

$$\frac{39}{10} =$$

$$\frac{11}{2} =$$

$$\frac{10}{6} =$$

$$\frac{29}{12} =$$

$$\frac{27}{5} =$$

Change to Improper Fractions.

$$2\frac{1}{2} =$$

$$3\frac{3}{16} =$$

$$7\frac{3}{8} =$$

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

$$4\frac{1}{3} =$$

$$5\frac{8}{9} =$$

$$8\frac{2}{3} =$$

$$7\frac{2}{11} =$$

$$5\frac{3}{4} =$$

$$4\frac{5}{12} =$$

$$5\frac{1}{12} =$$

$$3\frac{3}{16} =$$

Place $>$, $<$, or $=$ between each pair. Show equivalent LCD analysis.

Compare Fractions

1) $\frac{3}{5}$ $\frac{4}{7}$

2) $\frac{7}{16}$ $\frac{5}{8}$

3) $\frac{2}{3}$ $\frac{13}{20}$

4) $\frac{3}{14}$ $\frac{4}{7}$

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

Comparing Fractions

1) $\frac{7}{9}$ $\frac{54}{72}$

2) $\frac{9}{11}$ $\frac{8}{10}$

3) $\frac{3}{7}$ $\frac{8}{21}$

4) $\frac{11}{12}$ $\frac{22}{24}$

5) $\frac{9}{10}$ $\frac{42}{50}$

FRACTION ATTRACTION

DIRECTIONS:

There are 18 fraction boxes below. In each box, shade in the fractions that are equivalent to the given fraction. Then look for the same pattern of shading in the decoder key. As you decode each fraction box, write the correct letters into the rectangles at the bottom of the page. Work across from left to right.

$\frac{1}{2}$ $\frac{3}{6}$ $\frac{5}{11}$ $\frac{7}{15}$ $\frac{6}{12}$	$\frac{2}{3}$ $\frac{10}{15}$ $\frac{6}{8}$ $\frac{4}{6}$ $\frac{8}{12}$	$\frac{4}{5}$ $\frac{12}{18}$ $\frac{8}{10}$ $\frac{16}{20}$ $\frac{24}{30}$	$\frac{1}{8}$ $\frac{5}{48}$ $\frac{4}{32}$ $\frac{2}{12}$ $\frac{3}{24}$	$\frac{3}{7}$ $\frac{15}{28}$ $\frac{9}{21}$ $\frac{12}{24}$ $\frac{15}{35}$	$\frac{3}{4}$ $\frac{21}{28}$ $\frac{12}{16}$ $\frac{6}{8}$ $\frac{15}{24}$
$\frac{5}{12}$ $\frac{15}{36}$ $\frac{10}{24}$ $\frac{20}{40}$ $\frac{25}{35}$	$\frac{7}{10}$ $\frac{8}{11}$ $\frac{28}{50}$ $\frac{14}{21}$ $\frac{21}{30}$	$\frac{5}{6}$ $\frac{15}{24}$ $\frac{20}{30}$ $\frac{30}{36}$ $\frac{10}{12}$	$\frac{2}{11}$ $\frac{6}{33}$ $\frac{3}{12}$ $\frac{6}{22}$ $\frac{4}{44}$	$\frac{7}{9}$ $\frac{21}{24}$ $\frac{8}{10}$ $\frac{28}{35}$ $\frac{14}{18}$	$\frac{2}{5}$ $\frac{4}{10}$ $\frac{8}{20}$ $\frac{10}{24}$ $\frac{12}{30}$
$\frac{6}{7}$ $\frac{12}{15}$ $\frac{30}{35}$ $\frac{24}{28}$ $\frac{18}{21}$	$\frac{1}{8}$ $\frac{5}{40}$ $\frac{2}{16}$ $\frac{3}{24}$ $\frac{4}{32}$	$\frac{3}{10}$ $\frac{15}{40}$ $\frac{6}{20}$ $\frac{12}{40}$ $\frac{10}{30}$	$\frac{5}{8}$ $\frac{30}{40}$ $\frac{20}{32}$ $\frac{15}{25}$ $\frac{10}{16}$	$\frac{7}{15}$ $\frac{28}{50}$ $\frac{21}{45}$ $\frac{6}{14}$ $\frac{14}{30}$	$\frac{1}{3}$ $\frac{4}{10}$ $\frac{2}{6}$ $\frac{3}{9}$ $\frac{5}{15}$

-- DECODER KEY --

E	S	I	T	U	O	G	C	Y	R	A	L

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KEY

Equivalent Fractions.

$$\frac{1}{2} = \frac{2}{4} \quad \frac{1}{8} = \frac{3}{24}$$

$$\frac{2}{9} = \frac{4}{18} = \frac{6}{27}$$

$$\frac{1}{4} = \frac{3}{12} = \frac{4}{16} = \frac{5}{20}$$

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

$$\frac{3}{4} = \frac{6}{8}$$

$$\frac{2}{3} = \frac{4}{6} = \frac{6}{9}$$

$$\frac{3}{4} = \frac{9}{12} = \frac{12}{16} = \frac{18}{24}$$

$$\frac{1}{3} = \frac{3}{9}$$

$$\frac{2}{7} = \frac{4}{14}$$

$$\frac{2}{5} = \frac{4}{10} = \frac{6}{15}$$

$$\frac{1}{2} = \frac{25}{50} = \frac{50}{100} = \frac{100}{200}$$

Reduce to Lowest Terms.

$$\frac{16}{20} = \frac{8}{10} = \frac{4}{5}$$

$$\frac{50}{100} = \frac{1}{2}$$

$$\frac{5}{20} = \frac{1}{4}$$

$$\frac{11}{33} = \frac{1}{3}$$

$$\frac{4}{12} = \frac{2}{6} = \frac{1}{3}$$

$$\frac{12}{30} = \frac{2}{5}$$

$$\frac{9}{9} = \frac{1}{1}$$

$$\frac{20}{20} = \frac{2}{2}$$

$$\frac{12}{16} = \frac{6}{8} = \frac{3}{4}$$

$$\frac{16}{16} = \frac{8}{8} = \frac{4}{4}$$

$$\frac{8}{18} = \frac{4}{9}$$

$$\frac{7}{28} = \frac{1}{4}$$

Change to Mixed Numbers. Reduce.

$$\frac{4}{3} = 1\frac{1}{3}$$

$$\frac{14}{3} = 4\frac{2}{3}$$

$$\frac{49}{5} = 9\frac{4}{5}$$

$$\frac{17}{4} = 4\frac{1}{4}$$

$$\frac{16}{8} = 2$$

$$\frac{14}{4} = \frac{7}{2} = 3\frac{1}{2}$$

$$\frac{15}{2} = 7\frac{1}{2}$$

$$\frac{28}{8} = \frac{7}{2} = 3\frac{1}{2}$$

$$\frac{8}{5} = 1\frac{3}{5}$$

$$\frac{20}{12} = \frac{5}{3} = 1\frac{2}{3}$$

$$\frac{68}{11} = 6\frac{2}{11}$$

$$\frac{39}{10} = 3\frac{9}{10}$$

$$\frac{11}{2} = 5\frac{1}{2}$$

$$\frac{10}{5} = \frac{2}{1} = 2$$

$$\frac{29}{12} = 2\frac{5}{12}$$

$$\frac{27}{5} = 5\frac{2}{5}$$

Change to Improper Fractions.

$$2\frac{1}{2} = \frac{5}{2}$$

$$3\frac{3}{16} = \frac{51}{16}$$

$$7\frac{3}{8} = \frac{57}{8}$$

$$4\frac{3}{4} = \frac{19}{4}$$

$$4\frac{1}{3} = \frac{13}{3}$$

$$5\frac{8}{9} = \frac{53}{9}$$

$$8\frac{2}{3} = \frac{26}{3}$$

$$7\frac{2}{11} = \frac{74}{11}$$

$$5\frac{3}{4} = \frac{23}{4}$$

$$4\frac{5}{12} = \frac{53}{12}$$

$$5\frac{1}{12} = \frac{61}{12}$$

$$3\frac{3}{16} = \frac{51}{16}$$

KEY

Place $>$, $<$, or $=$ between each pair. Show equivalent LCD analysis.

Compare Fractions

Comparing Fractions

$$1) \frac{3}{5} > \frac{4}{7}$$

$$1) \frac{7}{9} > \frac{54}{72}$$

$$2) \frac{21}{15} < \frac{24}{35}$$

$$\frac{54}{72}$$

$$2) \frac{7}{16} < \frac{5}{8}$$

$$2) \frac{9}{11} > \frac{8}{10}$$

$$\frac{10}{16}$$

$$\frac{90}{110}$$

$$3) \frac{2}{3} > \frac{13}{20}$$

$$3) \frac{3}{7} > \frac{8}{21}$$

$$\frac{40}{20}$$

$$\frac{9}{21}$$

$$4) \frac{3}{14} < \frac{4}{7}$$

$$4) \frac{11}{12} = \frac{22}{24}$$

$$\frac{36}{20}$$

$$\frac{22}{24}$$

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

$$5) \frac{9}{10} > \frac{42}{50}$$

$$\frac{6}{10}$$

$$\frac{45}{50}$$