

More Fractions #6

1. Put the following fractions in order from least to greatest (using the original fractions) by finding equivalent fractions with the same denominator. Show your work.

$$\text{a) } \frac{2}{5} = \quad \frac{4}{15} = \quad \frac{1}{3} = \quad \text{b) } \frac{5}{6} = \quad \frac{3}{4} = \quad \frac{7}{8} =$$

2. Find the equivalent fractions. (Hint: What you do to the top, you do to the bottom.)

$$\text{a) } \frac{7}{8} = \frac{14}{\square} \quad \text{b) } \frac{4}{9} = \frac{\square}{32} \quad \text{c) } \frac{3}{42} = \frac{18}{\square}$$

$$\text{d) } \frac{1}{15} = \frac{4}{\square} \quad \text{*e) } \frac{12}{50} = \frac{\square}{15}$$

3. Compare with $>$, $<$, or $=$. Show your work with equivalent fractions.

$$\text{a) } \frac{2}{11} \square \frac{1}{5}$$

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$$\text{**b) } \frac{20}{35} \square \frac{27}{45}$$

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4. Solve. (Hint: Divide and then multiply.)

$$\text{a) } \frac{5}{6} \text{ of } 36 \text{ is } \underline{\hspace{2cm}}$$

$$\text{b) } \frac{2}{5} \text{ of } 40 \text{ is } \underline{\hspace{2cm}}$$

$$\text{c) } \frac{11}{25} \text{ of } 100 \text{ is } \underline{\hspace{2cm}}$$

$$\text{*d) } \frac{14}{21} \text{ of } 20 \text{ is } \underline{\hspace{2cm}}$$

5. Change into improper fractions.

$$\text{a) } 5\frac{5}{9}$$

$$\text{b) } 8\frac{2}{7}$$

6. Change into mixed numbers.

$$\text{a) } \frac{28}{3}$$

$$\text{*b) } \frac{63}{36}$$

7. Add or subtract. Show your work vertically.

Reduce to lowest terms. If your final answer has an improper fraction, change it.

a) $\frac{5}{6} + \frac{5}{8} =$

b) $\frac{4}{7} - \frac{3}{14} =$

c) $5\frac{7}{12} + 1\frac{17}{24} =$

d) $2\frac{1}{3} - 1\frac{7}{10} =$

8. Multiply. Reduce to lowest terms. Show your work when reducing.

a) $\frac{3}{11} \times \frac{5}{8} =$

b) $\frac{9}{12} \times \frac{8}{12} =$

c) $\frac{21}{28} \times \frac{16}{18} \times \frac{36}{48} =$

9. Divide. Show your work. Convert into a mixed number if necessary. Reduce to lowest terms

[Hints: Step 1 - The first fraction stays the same. Step 2 - Change the \div into a \times . Step 3 - Flip the second fraction. Step 4 - Multiply!]

a) $\frac{3}{4} \div 5 =$

b) $\frac{9}{10} \div \frac{3}{2} =$

c) $\frac{27}{54} \div \frac{18}{63} =$