

Name_____ Period_____ Date_____

Unit 1 Review (Thus Far)

1. Find the least common multiple by listing multiples.
 - a. 12 and 16
 - b. 4 and 5
 - c. 9 and 24
 - d. 8 and 6
 - e. 10 and 25
2. Find the greatest common factor by listing ALL the factors.
 - a. 90 and 56
 - b. 30 and 18
 - c. 24 and 48
 - d. 60 and 24
 - e. 35 and 28
3. Use the distributive property to rewrite the problem as the sum of two values.
 - a. $5(10+9)$
 - b. $4(6+8)$
 - c. $2(20-15)$
 - d. $9(9+7)$
 - e. $6(7-4)$

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4. Use the distributive property to rewrite the problem as the sum of two values.

a. $3(6x+9y)$

b. $4(2a+6b)$

c. $7(3b-9c)$

d. $5(6a-9b)$

e. $8(5h-9g)$

5. Use the distributive property to factor out the greatest common factor

a.

b. $63+81$

c. $12+16$

d. $24+40$

6. Use the distributive property to factor out the greatest common factor

a. $45x+36$

b. $60b-50a$

c. $24c+48k$

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7. Add/Subtract the fractions

EXAMPLE:

$$\begin{array}{r} \text{To add...} \\ \frac{1}{5} + \frac{2}{5} \end{array}$$

Just add up the numerators

$$\frac{1}{5} = \frac{2}{5} = \frac{1+2}{5} = \frac{3}{5}$$

a. $\frac{3}{4} - \frac{2}{4}$

c. $\frac{1}{2} + \frac{3}{2}$

b. $\frac{1}{9} + \frac{5}{9}$

d. $\frac{7}{10} - \frac{1}{10}$

8. Add/Subtract the fractions

EXAMPLE:

$$\frac{1}{6} + \frac{2}{9}$$

$$\begin{array}{l} 3 \cdot \frac{1}{6} + \frac{2}{9} \cdot 2 \\ 3 \cdot \frac{1}{6} + \frac{2}{9} \cdot 2 \end{array}$$

Rewrite with a common denominator.

Multiples of 6: 6, 12, **18**, 24, ...

Multiples of 9: 9, **18**, ...

$$\frac{3}{18} + \frac{4}{18}$$

Add the fractions (add the numerators, the denominator stays the same).

$$\boxed{\frac{7}{18}}$$

a. $\frac{2}{3} + \frac{5}{7}$

c. $\frac{7}{10} + \frac{3}{8}$

b. $\frac{1}{4} + \frac{3}{5}$

d. $\frac{5}{9} + \frac{2}{3}$

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9. Multiply the fractions

EXAMPLE:

	$\frac{2}{5} \times \frac{3}{4} = \frac{6}{20}$
	$\frac{2}{5} \times \frac{3}{4} = \frac{6}{20}$

a. $\frac{7}{9} \times \frac{1}{3}$

c. $\frac{5}{4} \times \frac{1}{2}$

b. $\frac{2}{5} \times \frac{3}{4}$

d. $\frac{8}{11} \times \frac{2}{3}$

10. Reduce the fractions

REDUCING FRACTIONS

• **Summary:** Reducing changes the numbers in a fraction, but it does not change the **VALUE** of a fraction.

To reduce a fraction, you divide both the numerator and denominator by a number that goes into them both evenly.



Example: Reduce $\frac{14}{16}$

• **Step 1:** Divide both 14 and 16 by a number that goes evenly into both of them.

$$\frac{14}{16} \xrightarrow{14 \div 2, 16 \div 2} \frac{7}{8}$$


a. $\frac{10}{20}$

e. $\frac{16}{18}$

b. $\frac{16}{24}$

f. $\frac{14}{42}$

c. $\frac{75}{100}$

g. $\frac{25}{70}$

d. $\frac{12}{60}$

h. $\frac{36}{40}$