

would you give to illustrate the following :—  
 $5a + 4a = 9a$ ?

2. Shew, as you would to a class, how to deduce the rule for factoring expressions of the form  $x^4 + 4y^4$ ;  $x^4 + 2x^2y^2 + 9y^4$ .

3. How would you develop the idea of the symmetry of an expression with respect to two or three letters?

4. Clearly illustrate the principle which enables you to shew (without actual division) that  $ax^3 - (a^2 + b) + b^2$  is exactly divisible by  $ax + b$ .

5. Shew how you would teach the distinction between an "Equation" and an "Identity."

6. Do the following in such a way as to show the advantage of taking fractions in "groups :"—

(1) Reduce to simplest form

$$\frac{1+y}{1-y} + \frac{4x}{1+x^2} + \frac{8x}{1+x^4} - \frac{1-x}{1+x}.$$

(2) Solve the equation

$$\frac{1}{x-a} + \frac{1}{x-b} = \frac{a+b}{ab}.$$

JULIUS CÆSAR.

1. "The general cast of character in Shakspeare's females is tenderness and pathos."—*A. Mills*.

Discuss this statement with reference to the female characters in the play of Julius Cæsar.

2. "They would not have you to stir forth to-day."

Recount the arguments brought to bear on Cæsar in connection with this going "forth." What trait of character is disclosed by his yielding?

3. Explain the meaning of the following passages, and assign each to its speaker :—

(a) "Alas, my lord,  
 Your wisdom is consumed in confidence."

(b) "The things that threaten me  
 Ne'er load but on my back."

(c) "What touches us ourself shall be last served."

(d) "To you our swords have leaden points, Mark Antony."

(e) "This day I breathed first."

(f) "I know that we shall have him well to friend."

(g) "You yourself  
 Are much condemned to have an itching palm."

(h) "Cowards die many times before their deaths."

(i) "I have a man's mind, but a woman's might."

(k) "Ambition's debt is paid."

#### PRACTICAL ENGLISH.

1. Indicate the quantity, or sound, of the accented syllable in each of the following words :—Dolorous, abdomen, apparatus, obverse, Genoa, telegraphy, museum, irremediable, sovereign, sonorous.

2. Distinguish—

(a) "A fool," says Solomon, "despises wisdom."

A fool says, "Solomon despises wisdom."

(b) Fetch the book.

Bring the book.

(c) He gave an answer.

He made a reply.

(d) A man of good reputation.

A man of good character.

(e) I saw my brother George only.

Only I saw my brother George.

3. Correct the following :—

(a) He did not cry out as some have done against it.

(b) He aint a good reader for he dont mind his stops.

(c) In the sister island, indeed, we have read of such horrors, but now they are brought home to us.

(d) If I am not mistaken, you are in the wrong.

(e) He rushed pell-mell down the stairs.

4. Write the following sentences, substituting equivalents for the italicised words :—

(a) The *assembly took place* in the *suburbs*.

(b) The two men are *mutually* dependent.

(c) *Not many* people were *present*.

(a) The *report* has spread but is not *credited*.

#### CHEMISTRY—METHODS.

1. A molecule of water is composed of two atoms of Hydrogen and one atom of Oxygen.