

$$.424 \text{ vergées} \times 40 = 16.960 \text{ perches}$$

$$.960 \text{ perche} \times 30\frac{1}{4} = 29.040 \text{ verges.}$$

Rép. 2 acres, 0 vergées, 16 perches, 29.04 verges.

5. Trouvez le poids d'une feuille de zinc qui a 6 pieds de long 3 pieds de large et $\frac{1}{8}$ de pouce d'épaisseur si le zinc pèse 7.2 le poids d'un volume égal d'eau.

NOTE.—Un pied cube d'eau pèse 62 livres $\frac{1}{8}$.

Solution: $\frac{1}{8}$ de pouce = $\frac{1}{8} \div 12 = \frac{1}{96}$ de pied.

$$6 \times 3 \times \frac{1}{96} = 3 \times \frac{1}{16} = \frac{3}{16} \text{ de pied cube de zinc.}$$

$$\frac{3}{16} \times 62\frac{1}{8} \times 7.2 = \frac{3}{16} \times \frac{125}{8} \times 7.2 = \frac{1}{2} \times 187 \times 0.9 = 168.3 \div 2 = 84.15 \text{ livres. Rép.}$$

6. Combien de gallons d'eau contiendra un fossé de 40 pieds de long, 13 pieds de large au haut, 11 pieds de large au bas et 5 pieds de profond, s'il y a 6 gallons $\frac{1}{4}$ dans 1 pied cube d'eau?

Solution: $(13 + 11) \times 5 = 120$

$$120 \div 2 = 60$$

$$60 \times 40 = 2400 \text{ pieds cubes d'eau.}$$

$$2400 \times 6\frac{1}{4} = 2400 \times \frac{25}{4} = 600 \times 25 = 15000 \text{ gallons. Rép.}$$

LANGUE ANGLAISE

Dictation and Composition

THE HAND

Be-hold'en, indebted

De-vi-ous, crooked

Dis-cor'dant, inharmonious

En-hance'-ment, increase in value

Trans-fixed, immovable; spell-bound.

In many respects the organ of touch, as embodied in the hand, is the most wonderful of the senses. The organs of the other senses are passive: the organ of touch alone is active. The eye, the ear, and the nostril stand simply open; light, sound, and fragrance enter, and we are compelled to see, to hear, and to smell; but the hand selects what it shall touch, and touches what it pleases.

It puts away from it the things which it hates, and beckons towards it the things which it desires; unlike the eye, which must often gaze transfixed at horrible sights from which it cannot turn; and the ear which cannot escape from the torture of discordant sounds; and the nostril, which cannot protect itself from hateful odors.

Moreover, the hand cares not only for its own wants, but, when the other organs of the senses are rendered useless takes their duties upon it. The hand of the blind man

goes with him as an eye through the streets and safely threads for him all the devious way; it looks for him at the faces of his friends and tells him whose kindly features are gazing on him; it peruses books for him, and quickens the long hours by its silent readings.

It ministers as willingly to the deaf; and when the tongue is dumb and the ear stopped, its fingers speak eloquently to the eye, and enable it to discharge the unwonted office of a listener.

The organs of all the other senses, also, even in their greatest perfection, are beholden to the hand for the enhancement and the exaltation of their powers. It constructs for the eye a copy of itself and thus gives it a telescope with which to range among the stars; and by an other copy on a slightly different plan, furnishes it with a microscope, and introduces it into a new world of wonders.

It constructs for the ear the instruments by which it is educated, and sounds them in its hearing till its powers are trained to the full. It plucks for the nostril the flower which it longs to smell, and distils for it the fragrance which it covets. As for the tongue, if it had not the hand to serve it, it might abdicate its throne as the Lord of Taste.

In short, the organ of touch is the minister of its sister senses, and without any play of words, is the handmaid of them all.