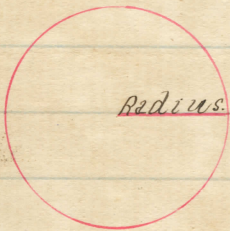


Rules.



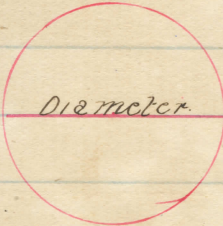
1. Radius given

Mult. by 2 for Diameter

Mult. by $6\frac{2}{7}$ for Circumference

For Area, square Radius and Mult
by $\frac{22}{7}$

Note. In animals tooth is a Radius

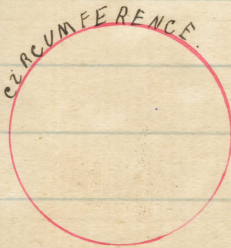


2. Diameter given.

rd For Radius, divide by 2.

rd For Circumference, Mult. by $\frac{22}{7}$

rd For Area, Square Diameter, and Mult.
by $\frac{11}{14}$.



3. Circumference given.

rd For Radius, divide by $6\frac{2}{7}$; that
is Mult by $\frac{7}{44}$.

rd For Diameter, Mult. by $\frac{7}{22}$

rd For Area, Square Circumference,
and Mult. by $\frac{7}{88}$.



Arithmetic.

Cost of painting a box (no bottom) length 5 feet, breadth, 4 feet, depth $3\frac{1}{2}$ feet at 9^d per square yard

$5 \times 4 \times 1 = 20$

$5 \times 3\frac{1}{2} \times 2 = 35$

$3\frac{1}{2} \times 4 \times 2 = 28$

9^d per square yard equals 1^d per foot.

83 ft = 6/11 Ans £0-6-11.

1.464561 ÷ 44.1

44100000) 146456100 / .03321
132300000

141561000
132300000

Answer .03321

92610000

88800000

44100000

44100000



Square Root is a number, which when mult. by itself once, will produce the given number.

Singular

Plural

Antithesis,
Apex,
Automaton,
Bandit,
Basis,
Cherub,
Criterion,
Desideratum,
Dilettante,
Effluvium,
Ellipsis,
Eratum,
Focus,
Genus,
Hypothesis,
Lamina,
Magus,
Medium,
Nebula,
Stimulus,
Vertex,



Antitheses
Apices
Automata
Banditti.
Bases
Cherubim.
Criteria.
Desiderata.
Dilettanti.
Effluvia
Ellipses.
Erata
Foci.
Genera.
Hypotheses.
Laminae.
Magi.
Media.
Nebulae.
Stimuli
Vertices.

Arithmetic.

If 35 engines steam 250 miles for a cost of £1800.05 when coal is £17.25 a ton, what distance may 25 engines travel for £50.0125 when coal is $\frac{4}{5}$ of its former price.

$$\text{As } 25: 35 :: 250 \text{ miles} \quad \frac{1}{25} \times \frac{35}{1} \times \frac{250}{1} \times \frac{1}{4} \times \frac{1}{4} \times \frac{5}{1} =$$

$$4 \text{ } 1800.05: 450.0125$$

$$\begin{array}{r} 4 \quad 1 \quad 5 \\ \hline 875 \\ 8 \quad \quad \quad 8 \quad 875 \\ \hline 8 \quad \quad \quad 109 \frac{3}{8} \end{array}$$

Ans. 109 $\frac{3}{8}$ miles.

If 7 horses in 6 days working 8 hours per day with double furrow ploughs, turn over 84 acres, how many acres will be ploughed by 18 oxen, in 4 days working 10 hrs per day with triple furrow ploughs supposing 3 oxen to do the work of 2 horses.

$$\text{As } 7: 18 :: 84$$

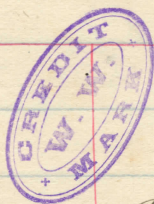
$$\begin{array}{r} 38: 4 \\ 48: 105 \\ 2: 3 \\ 3: 2 \end{array} \quad \begin{array}{r} 84 \times 3 \times 5 \times 1 = 1260 \\ 1 \quad 1 \quad 1 \quad 7 \quad 7 \\ \hline \text{Ans. } 180 \text{ miles} \end{array}$$



Parsing.

It	Pro.	pers. 3 sing neut nom subj to <u>is</u> .
is	verb	irr, int, ind. act. pres. 3 sing ag <u>it</u> .
foolish	adj	of qual. att to it comp to <u>is</u>
to sigh	verb.	reg. int. inf. act pres noun in appit.
for	prep	rel. things to <u>to sigh</u>
those	adj	dem. att to <u>things</u> .
things.	noun	con. cl. 3 plur. neut. obj gov. by <u>for</u>
that	pro.	rel. ant things 3 plural neut nom subj to <u>are</u>
are	verb	irr. intrans. indic act. past indef 3 plur ag. <u>things</u> .
clearly	adv.	of manner, ext <u>are</u> .
beyond	prep	gov. reach relating <u>reach</u> to <u>are</u>
our	pron.	per. 3 sing neut obj gov. poss att <u>reach</u>
reach	noun	com class. 3 sing neut obj gov. by <u>beyond</u> .

Word	Prefix	Root	L	Affixes
Went		Wenden to go	E.	
Sneak		Snican, creep	E.	
Revelation	Re-back	Velum-veil	L	tion. Abs Idea.



Abbreviations in Music.

	P.P.	—	pianissimo	—	very soft.
it.	p.	—	piano	—	soft.
	m.f.	—	mezzo forte	—	rather loud.
pit.	f.	—	forte	—	loud.
	ff	—	fortissimo	—	very loud
	<	—	or <i>cres.</i>	}	— gradually getting louder.
for		—	<i>crescendo.</i>		
	>	—	or <i>dim.</i>	}	— gradually getting softer.
		—	<i>diminuendo</i>		
def	D.C.	—	Da Capo	—	repeat from beginning
	Fine	—	The end	—	(sometimes — .)
	§:	—	The sign		
	D.S.	—	Dal segno	—	repeat from the sign §:

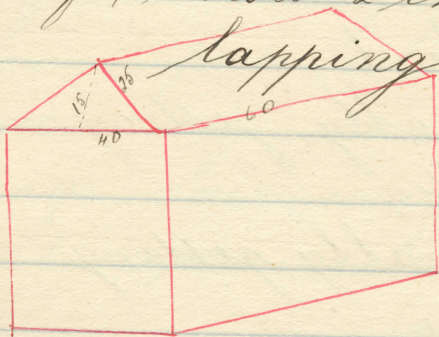
reach	Adagio	—	very slow time.	—	M. ♩ 50.
	Adante	—	slow	—	M. ♩ 60.
	Moderato	—	moderate	—	M. ♩ 90.
	Allegro	—	quick	—	M. ♩ 120
ires	Presto	—	very quick	—	M. ♩ 150
	Legate	—	smoothly.		
	Vivace	—	lively.		



abs
Idea.

Arithmetic

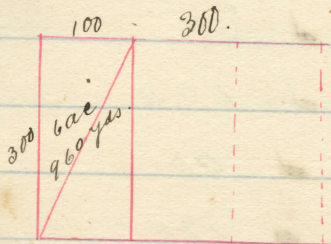
The width is 40 ft, of a house, length 60 feet
 height of a ridge, above the wall 15 feet
 Find cost of iron 20 inches wide, at 6^o
 per lin. ft. for covering the whole
 roof / allow 2 inches on each, for over
 lapping.



25	50			
60	100			
1500	3000	2	1	1
2				
3000		2	2	28

Answer £ 50

The area of a rectangular field whose
 length is three times its breadth, is
 6 ac. 960 square yards



6 ac 960 yds = 90,000 square yds

$\sqrt{90000}$ sq yds = 300

300 L 100 W

$300 \times 300 = 90,000$

$100 \times 100 = 10,000$

$\sqrt{10,000} = \underline{316.2}$

Ans 316.2 yds



Geography.

Name	What	Where.
Saskatchewan	River	in Canada, flows east into Lake Winnipeg.
Ottawa	Town	in Canada, on Ottawa R. Capital, and timber.
Barbadoes	Island	N. of Venezuela, Limes, sugar, lately destroyed by a gale.
Godaverri	River,	in India, rises in Deccan plateau, S. to into Bay of Bengal, Delta.
Tientsin	Town	in China, Port of Peking, Terminus of grand canal
Irkutsk	Town	in Siberia, on the Angara, Commerce with China.
Baikal	Lake	in Siberia, in S. C. Largest elevated fresh water lake in the world.
St. Elias.	Mount ain.	in Canada & Alaska, In Sea Range, high peak.



Analysis

Sentence	Word	Subj	Adj to Subj	Verb
<p>A. Although the men showed ----- just before --- taken I noticed ----- they were anxious, as to whether they could successfully accomplish the feat.</p>	<p>Comp. the Sent.</p>	<p>I</p>		<p>noticed</p>
<p>B (Although) the men showed no fear</p>	<p>Adv to Men to A</p>	<p>Men</p>	<p>the</p>	<p>showed</p>
<p>C While treading stones</p>	<p>Adv to b. to A. (They)</p>	<p>(They)</p>		<p>(were) tread- ing</p>
<p>D Before the first step was taken.</p>	<p>Adv to noticed</p>	<p>Step</p>	<p>the first</p>	<p>was taken</p>
<p>E (As if) they were anxious</p>	<p>Adv to b. to A.</p>	<p>They</p>		
<p>F As to whether they could successfully accomplish the feat</p>	<p>Noun clause to anxious</p>	<p>They</p>		<p>could accompe ish</p>

Analysis

Lecture	V.I.P.	Comp.	Dir.	Index	Adpt. to D.	Extension
noticed			quiver- ing		a slight of the body	clauses B. C. D. E & F. (just.
showed			fear	no		clause c.
were) bread- ing was taken						on the stones (place) white (time)
	were	anxious				clause F (man)
ould compe sh			feat		the	successfully manner

