

Digits 2.3

① $\square = x$ $\frac{y}{x} = \frac{21}{7}$ Const of Prop. = 3
 $0 = y$

② 4 eggs = 172 g.
grams per egg $\rightarrow \frac{172 \text{ g}}{4 \text{ eggs}} = 43 \text{ g./egg}$

③ $x + y$ proportional
 $x = 6, y = 156$ $\frac{y}{x} = \frac{156}{6}$ Const of Prop = 26

④ won 182, lost 13
wins to losses $\frac{182 \text{ w}}{13 \text{ L}}$ Const of Prop = 14

⑤

X	2	3	4	5
Y	40	60	80	100

$\frac{40}{2} = 20$ $\frac{60}{3} = 20$ $\frac{80}{4} = 20$ $\frac{100}{5} = 20$

Const of Prop = 20

$\frac{y}{x} = 20$

(Digits might say: $\frac{20}{1}$)

Since all the same \rightarrow

(A) PROPORTIONAL

6

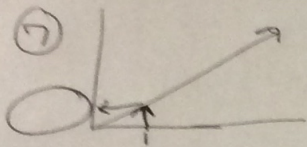
n	2	3	4	5
M	880	1320	1760	2200
	↓	↓	↓	↓
	440	440	440	440

COP = ratio of

$\frac{y}{x}$ when $x=1$

$$\left(\frac{\text{Miles}}{\text{hrs}}\right) = \boxed{440}$$

7



COP when $x=1$,
what is y .

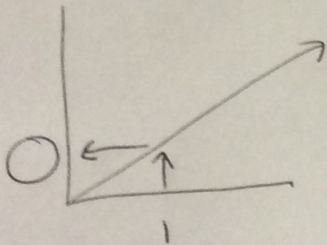
$$\frac{y}{x} = \boxed{\text{C.O.P.} = 33}$$

$$B) \frac{440 \text{ mi}}{1 \text{ hr}} = \frac{5280}{x}$$

$$\frac{5280}{440} = \frac{440x}{440}$$

$$\boxed{x = 12 \text{ hrs}}$$

8



$$\boxed{\text{COP} = 50}$$

$$(1, 50) = \boxed{50 \text{ miles in 1 hr.}}$$

$$9) \quad x = 23, \quad y = 264.5$$

$$\frac{264.5}{23} = \frac{4771.5}{x}$$

$$\frac{264.5x}{264.5} = \frac{10844.5}{264.5}$$

$$\boxed{\text{COP} = 11.5}$$

$$\boxed{x = 41}$$

⑩ 30 lb = 112.5 pizza
pizza per lb.

$$\frac{112.5}{30} = 3.75$$

⑪

Time	act.	
4	2296	→ 574 ←
5	2870	→ 574 ←
6	3444	→ 574 ←
7	4018	→ 574 ←

($\frac{2296}{4}$)

$$\text{C.O.P.} = 574$$

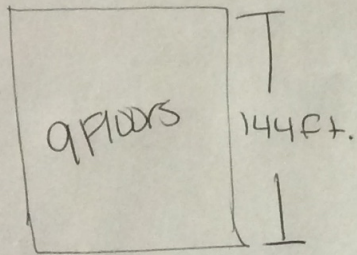
B) C.O.P. x time
 10×574
 $= 5740 \text{ ft}$

C) $\frac{574}{1} = \frac{6314}{x}$

$$\frac{6314}{574} = \frac{574x}{574}$$

$$x = 11$$

⑫



A) COP $\frac{144}{9} = 16$

B) COP x 13 Floors

$$16 \times 13$$

$$208 \text{ ft}$$