

Ch. 5 Review p.205-207 (1-21all)

① $\frac{289 \text{ mi}}{10 \text{ gal}} = 28.9 \text{ mi/gal}$

④ $\frac{4}{9} \stackrel{?}{=} \frac{2}{3}$ **NO**

(Arrows show $\times 2$ on numerator and $\times 3$ on denominator)

② $\frac{6\frac{2}{5} \text{ rev}}{2\frac{3}{3} \text{ sec}} = 2\frac{2}{3}$

(Arrows show $\div 2$ on numerator and $\div 3$ on denominator)

⑤ $\frac{12}{22} \stackrel{?}{=} \frac{18}{33} \times 6$ **YES**

(Arrows show $\times 2$ on numerator and $\times 3$ on denominator)

④ $\frac{32}{5} \times \frac{3}{8} = \frac{12}{5} \text{ rev/sec}$

Be sure to show me the MATH

or $2\frac{2}{5} \text{ rev/sec}$

or 2.4 rev/sec

③

Servings	2	4	6	8
Calories	240	480	720	960

⑥ $\frac{8}{50} \stackrel{?}{=} \frac{4}{10}$ **NO**

(Arrows show $\times 2$ on numerator and $\times 5$ on denominator)

$\frac{240 \text{ cal}}{2 \text{ ser.}}$ > choose any pair to make a ratio

Then Simplify: $\frac{240 \text{ cal}}{2 \text{ ser.}} \div \frac{2}{2} = \frac{120 \text{ cal}}{\text{serv.}}$

⑦ $\frac{4 \frac{32}{5}}{40} \stackrel{?}{=} \frac{12}{15}$ **YES**

(Arrows show $\times 3$ on numerator and $\times 5$ on denominator)

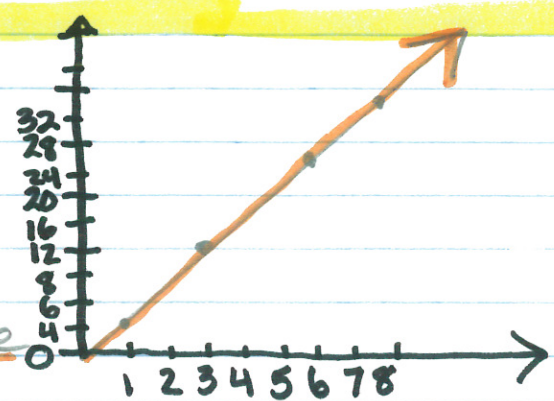
or 120 cal./serv.

⑧

x	1	3	6	8
y	4	12	24	32

Yes, x and y are proportional to each other.

- ① Graph is a straight line
- ② Goes through (0,0)



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⑨

	G1	G2
penalties	6	8
minutes	16	m

(1 point) Write a Proportion

$$\frac{3 \cdot 6}{16} = \frac{8 \cdot 4}{m}$$

$$3m = 16 \cdot 4$$

$$3m = 64$$

$$m = 24.6 \text{ minutes}$$

(1 point) Solve for m

$$\begin{array}{r} 24.6 \\ 3 \overline{)64.0} \\ \underline{-6} \\ 14 \\ \underline{-12} \\ 2 \\ \underline{-18} \\ 0 \end{array}$$

⑪ ~~$\frac{x}{4} = \frac{2}{5}$~~

~~$\frac{5x}{5} = \frac{8}{5}$~~

$$x = \frac{8}{5} \text{ or } 1\frac{3}{5} \text{ or } 1.6$$

⑫ ~~$\frac{5}{12} = \frac{y}{15}$~~

~~$\frac{4y}{4} = \frac{25}{4}$~~

$$y = 6.25 \text{ or } 6\frac{1}{4} \text{ or } \frac{25}{4}$$

$$\begin{array}{r} 6.25 \\ 4 \overline{)25.00} \\ \underline{-24} \\ 10 \\ \underline{-8} \\ 20 \\ \underline{-20} \\ 0 \end{array}$$

⑩

	C1	C2
songs	15	18
hours	2.5	h

1 point

~~$\frac{15 \cdot 15}{0.5 \cdot 2.5} = \frac{18 \cdot 6}{h}$~~

1 point

$$h = 6(0.5)$$

$$h = 3 \text{ hours}$$

⑬ ~~$\frac{28}{5} = \frac{6}{w}$~~

$$w = 15$$

⑭ ~~$\frac{s+1}{4} = \frac{4}{8}$~~

$$s+1 = 4 \div 2$$

$$s+1 = 2$$

$$s = 1$$

⑮ line passes through (0,0) and (1,1)

$$\frac{\Delta y}{\Delta x} = \frac{0 \rightarrow 1}{0 \rightarrow 1} = \frac{1}{1}$$

$$\text{slope} = 1$$

⑯ Passes through (0,0) and (3,2)

$$\frac{\Delta y}{\Delta x} = \frac{0 \rightarrow 2}{0 \rightarrow 3} = \frac{2}{3}$$

$$\text{slope} = \frac{2}{3}$$

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(17) passes through
 $(-2, -3)$ and $(1, 3)$

$$\frac{\Delta y}{\Delta x} = \frac{-3 \rightarrow 3}{-2 \rightarrow 1} = \frac{6}{3}$$

Slope = 2

(20) ~~$\frac{x}{y} = 20 \cdot y$~~

$$x = 20y$$

$$\frac{1}{20}x = y$$

y is $\frac{1}{20}$ th of x

Yes!
 $k(\text{orm}) = \frac{1}{20}$

(18) ~~$x + y = 6 - x$~~
 $y = -x + 6$

No - can't be written as $y = k(x)$ because of the +6

(21) ~~$x = y + 2$~~
 $x - 2 = y$ $y = x - 2$

NO: the 2 is being subtracted. There is nothing you could multiply x by to get y EVERY TIME (must be the same #)

(19) ~~$y - x = 0$~~
 ~~$+x$~~ ~~$+x$~~
 $y = 0 + x$

$$y = x$$

Yes! $k = 1$

constant of proportionality

Good luck tomorrow.

Be sure to look @ your quizzes, especially # 22 & 23 on the practice test and # 6 & 7 on QQ # 12 since those types of questions were not part of the Ch. 5 Review in the book
 ☺ MsG