

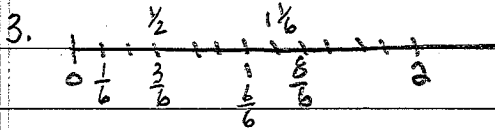
June Review Assignment #2.

Answers.

Unit 3

1. i) $\frac{6}{8} = \frac{3}{4} = 0.75$ Terminating ii) $\frac{1}{3} = \frac{3}{9} = 0.\bar{3}$ Repeating
 iii) $\frac{3}{5} = \frac{6}{10} = 0.6$ Terminating iv) $\frac{7}{8} = 7 \div 8 = 0.875$ Terminating
 v) $\frac{6}{7} = 6 \div 7 = 0.\overline{857142}$ Repeating.

2. $\frac{1}{22} = 0.0\overline{45}$ $\frac{2}{22} = 0.0\overline{9}$ $\frac{3}{22} = 0.1\overline{36}$ $\frac{4}{22} = 0.\overline{18}$
 $\frac{5}{22} = 0.2\overline{27}$ $\frac{6}{22} = 0.\overline{27}$ $\frac{7}{22} = 0.3\overline{18}$ $\frac{8}{22} = 0.\overline{36}$



4. a) $\frac{1}{4} = \frac{6}{24}$ $\frac{1}{3} = \frac{8}{24}$ } $\frac{1}{24}$ b) $\frac{3}{5} = 0.6$ } 0.7
 0.8 }

- c) $0.21 = 0.210$ } $0.21, 0.212, \dots$
 $0.22 = 0.220$ }

5. 189.4

$$\begin{array}{r} -156.7 \\ 32.7 \text{ Km} \end{array}$$

6. a) 14

$$\begin{array}{r} \times 53 \\ 42 \end{array}$$

$$\underline{700}$$

$$742$$

b) $1.4 \times 5.3 = 7.42$

$$14 \times 5.3 = 74.2$$

$$1.4 \times 530 = 742$$

$1 \times 5 = 5$

$14 \times 5 = 70$

$1 \times 530 = 530$

7. Area = length \times width
 $= 19.8 \times 46.3$
 $= 906.14$

(Estimate

$\sim 20 \times 50 = 1000$)

$$19.8$$

$$46.3$$

$$\begin{array}{r} 19.8 \\ \times 46.3 \\ \hline 594 \\ 11880 \\ 79200 \\ \hline \end{array}$$

8. a) $3.26 + (4.85 \div 0.05) - 3.75$

$$= 3.26 + 97 - 3.75$$

$$= 100.26 - 3.75$$

$$= 96.51$$

$$\underline{96.51}$$

$$\begin{aligned}
 \text{b) } & 1.899 \div 0.012 + 3.496 \div 1.15 \\
 & = 158.25 + 3.04 \\
 & = 161.29
 \end{aligned}$$

$$\begin{aligned}
 \text{c) } & 9.342 \times 2.5 - 3.86 \times 2.3 \\
 & = 23.355 - 8.878 \\
 & = 14.477
 \end{aligned}$$

$$9. \text{ a) } 0.10 \times 78 = 7.8$$

$$\text{b) } 0.15 \times 60 = 9$$

$$\text{c) } 0.20 \times 120 = 24$$

$$10. \quad 30\% \text{ of } 27 = 0.30 \times 27 = 8.1 \text{ About } 8 \text{ students}$$

11.

<u>Discount</u> 30% of 74.99 $0.30 \times 74.99 = 22.50$	<u>Sale</u> $74.99 - 22.30$ $= 52.69$	$\$59.54$
<u>Tax</u> 13% of 52.69 $= 0.13 \times 52.69 = 6.85$	<u>Cost</u> $52.69 + 6.85$ $= 59.54$	

$$12. \quad \frac{27}{30} = 0.9 = 90\% \quad \text{Benjamin completed more questions.}$$

Unit 4

$$1. \text{ a) Personal } 14\% \text{ of } 2500 = 0.14 \times 2500 = \$350$$

$$\text{Car} = 8\% \text{ of } 2500 = 0.08 \times 2500 = \$200$$

$$\text{Food} = 23\% \text{ of } 2500 = 0.23 \times 2500 = \$575$$

$$\text{Rent} = 37\% \text{ of } 2500 = 0.37 \times 2500 = \$925$$

$$\text{Bills} = 18\% \text{ of } 2500 = 0.18 \times 2500 = \$450$$

$$\text{b) } 2500 + 500 = 3000$$

$$\text{Food} = 23\% \text{ of } 3000 = 0.23 \times 3000 = \$690$$

His food budget will increase $690 - 575 = \$115!$

$$2 \text{ a) } \text{Fat} = 0.20 \times 69 = 13.8$$

$$\text{Muscle} = 0.5 \times 69 = 34.5$$

$$\text{Bone} = 0.18 \times 69 = 12.42$$

$$\text{Other} = 0.12 \times 69 = 8.28 \Rightarrow$$

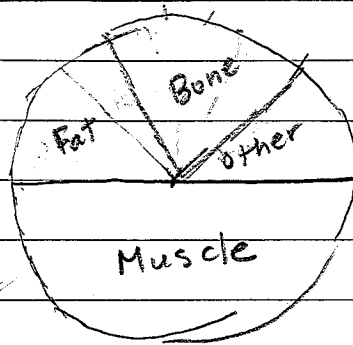
Central Angle

$$\text{Fat } 20\% \times 360^\circ = 72^\circ$$

$$\text{Bone } 18\% \times 360^\circ = 64.8^\circ$$

$$\text{Muscle } 60\% \times 360^\circ = 216^\circ$$

$$\text{Other } 12\% \times 360^\circ = 43.2^\circ$$



3. $A = \pi \times r \times r$

$$= 3.14 \times 0.5 \times 0.5$$

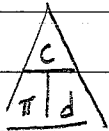
$$= 0.785 \text{ m}^2$$

4. a) $0.78 \div 2 = 0.39 \text{ cm}$

b) $C = \pi \times d = 3.14 \times 0.78 = 2.4 \text{ cm}$

c) $A = \pi \times r \times r = 3.14 \times 0.39 \times 0.39 = 0.48 \text{ cm}^2$

5.



$$d = C \div \pi = 12.6 \div 3.14 = 4.01 \text{ m}$$

6. a) $A = b \times h = 8 \times 3 = 24 \text{ cm}^2$

b) $A = b \times h = 5.0 \times 2.8 = 14 \text{ cm}^2$

7. a) $15 \times 2 \div 4 = 7.5$

b) $10.5 \times 2 \div 6.0 = 3.5 \text{ m}$