Arithmetic – Sheet #4

Do	it in your head	Divisibility.	Division. Leave your
1)	6.39÷1000	23) State whether each number is evenly divisible	answers as mixed numbers. Use short division for single digit
2)	7.307 • 100	by anything from 2 to 12 (but not 7).	divisors.
3)	9000 ²	a) 40,832	25) 45277÷6
4)	13 • 4		
5)	25 • 4	b) 1,062,882	
6)	16 • 3		
7)	15 • 4	24) Give the prime	26) 374000÷42
8)	3 ⁴	factorization.	
9)	2 ⁶	a) 270,000	
10)	5 ³		
11)	$18000 \div 2000$		
12)	$(10.3)^2$		
13)	350÷560		
14)	235,000 · 4		
15)	8043-2987	b) 1,062,882	27) 387031÷5823
16)	8 • 99999		
17)	15 • 999		
18)	6200 · 5		
19)	740÷5		
20)	$45 \div 54$		
21)	21-3.1		
22)	$0.03 \div 0.0006$		

Ratios, Part I – Sheet #1

1) Find the ratio of *milk* 3) For each problem, give e) What is the ratio of the ratio of *Bill to Mary*. their salaries if Bill to water. gets paid \$10/hr a) 4 cups of milk and 6 a) What is the ratio of their and Mary gets paid cups of water. weights if Bill weighs \$300/week. (Both 160 pounds and Mary of them work 40 weighs 140 pounds? hours per week.) b) 6 cups of milk and 4 cups of water. c) 6 cups of water and 4 b) What would the ratio of cups of milk. their weights be if they were weighed in kilograms? d) 2 quarts of milk and 3 pints of water. Which of the 4) e) 2 quarts of water and c) What is the ratio of their following classes at 28^{fl.} oz. of milk. Eastman Elementary heights if Bill is 5'4" tall and Mary is 5'8" tall? School have equal ratios of boys to girls? f) 240 m ℓ of milk and First grade has 18 180 ml of water. boys and 12 girls. Second grade has 10 boys and 8 girls. 2) What is the ratio of Third grade has 15 Jane's to Larry's to girls and 12 boys. Kevin's money if they have \$240, \$320, and \$440, respectively? d) What would the ratio of Fourth grade has 12 girls and 15 boys. their heights be if they were measured in meters? Fifth grade has 13 boys and 9 girls. Sixth grade has 15 boys and 10 girls.

Percents – Sheet #6

- 1) Find each answer by using the easiest method possible. Show work on a separate sheet for those problems that can't be done in your head.
- a) What is 25% of 140?
- b) What is 80% of 450?
- c) What is 15% of 220?
- d) What is 1% of 741?
- e) What is $33\frac{1}{3}\%$ of 1200?
- f) What is 83¹/₃% of 12,000?
- g) What is 160% of 25?
- h) What is 0.02% of 3000?
- i) 8 is what percent of 16?
- j) 8 is what percent of 160?
- k) 70 is what percent of 210?
- 1) 31 is what percent of 310?
- m) 14 is what percent of 150?

- n) 14 is what percent of 16?
- o) 71 is 10% of what number?
- p) 40 is 20% of what number?
- q) 300 is $66^{2/3}$ % of what number?
- r) 78 is 17% of what number?
- s) 5022 is 81% of what number?
- 2) Quickly Estimate.a) What is 71% of 245?
 - b) What is 9% of 5630?
 - c) What is 43% of 7?
 - d) 19 is what percent of 82?
 - e) 63 is what percent of 130?
 - f) 8567 is what percent of 9100?
- 3) What do you end up with if you increase 55 by 40%, and then decrease that result by 40%?

- 4) Increase and decrease.
 - a) Going from 5200 up to 6500 is what percentage increase?

b) Going from 6500 down to 5200 is what percentage decrease?

c) Why were the answers to the above two problems different?

Algebra – Sheet #8

Signed Numbers Simplify. 1) $-8-3$ 2) $34-42$ 3) $(4)(-7)$	Solving Equations Solve each equation by getting X alone. Show what is done to each side. Check that your answers are correct. 13, $-5X = -40$	18) $7X - 21 = 3X - 9$
$\begin{array}{l} (+)(-7) \\ (+)(-7) \\ (+)(-7) \\ (+)(-7) \\ (-8)(-3) \\ (-8)(-3) \\ (-3)(-4) \\ (-4) \\ (-20) \div (-5) \end{array}$	13) $-3X = -40$ 14) $X + 7 = -2$	19) $8X + 3 - 5X = 7 - 4X - 32$
7) $\frac{-20}{-5}$ 8) $6 \cdot \frac{7}{-15}$	15) $6X = -42$	
9) $\left(-\frac{4}{5}\right) \cdot \left(-\frac{5}{6}\right)$ 10) -710 11) $-6 + 9 + 4 - 7$	16) $X \div 4 = 8$ 17) $\frac{X}{4} = 8$	20) X - 8 - 6X = -7 + X - 3
12) -27 + -8		
21) $6X - 7 = 2X - 10$ 22) Challenge! $\frac{1}{6}X + \frac{2}{3} - \frac{3}{4}X = -\frac{7}{10} + \frac{2}{3}X - \frac{2}{3}$	23) Challenge! 7X+4-X-8-11X-14 24) Challenge! $-X-2_{3}^{2}-12X+13+5X$	$= -12 + 49X + 23 - 11 - 52X$ $= -5\frac{1}{2} = 13\frac{2}{3}X + 5 - \frac{3}{4}X - 21\frac{1}{6} - 17\frac{5}{12}X$

Solutions to Selected Problems

- 8) This is the same idea as problem #8 on Sheet #5. On this problem, one triangle has sides of length 2½ and 4½, which is a ratio of 9:5. Therefore the height of the tree is ⁹/₅ of it's shadow. 25 · ⁹/₅ = <u>45 ft</u>.
- 10) a) $\frac{5}{7} \cdot 28 \rightarrow \underline{\$20}$
 - b) $\frac{7}{5} \cdot 450 \rightarrow \frac{630}{5}$
 - c) $5+7 \rightarrow 12; \quad \frac{5}{12} \cdot 360 \rightarrow \underline{\$150 \text{ John}};$ $\frac{7}{12} \cdot 360 \rightarrow \underline{\$210 \text{ Mary}}$
- 11) b) The first triangle tells us short:long → 2.6:4.9 (26:49) Therefore the long is ⁴⁹/₂₆ short;
 Second triangle tells us x = ⁴⁹/₂₆ · 3¹/₄ → 6¹/₈ inches
- 12) b) $\frac{9}{2}$ ·198 → <u>891</u> c) $\frac{2}{2}$ ·198 → 44
 - d) $9+2 \rightarrow 11; \frac{2}{11} \cdot 198 \rightarrow \underline{36 \text{ goats}};$ $\frac{9}{11} \cdot 192 \rightarrow \underline{162 \text{ cows}}$

Percents – Sheet #1

- 3) $4800 \cdot 0.75 \rightarrow \underline{3600}; \ 4800 \cdot \frac{3}{4} \rightarrow \underline{3600}$
- 6) We moved the decimal 2 over to the right. A percent is out of 100 and when we divide by 100 we move the decimal 2 over to the right.
- 10) Because it was not out of one hundred and therefore we could not just move the decimal two over to the left.
- 31) $2\frac{1}{2}$ quarts $\rightarrow 80$ fl.oz; $\frac{3}{8} \cdot 80 \rightarrow \underline{30}$ fl.oz; $\frac{5}{8} \cdot 80 \rightarrow \underline{50}$ fl.oz
- 33) $\frac{60}{7} \cdot \frac{60}{7} \rightarrow \frac{3600}{49}; \quad \frac{3600}{49} \cdot \frac{60}{7} \rightarrow \frac{216000}{343} \text{ or } 629\frac{253}{343}$

Percents – Sheet #2

- 1) L) $0.081 \cdot 48000 \rightarrow \underline{3888}$ 2) c) $\frac{11}{90} \rightarrow 11 \div 90 \rightarrow 0.1\overline{2} \rightarrow \underline{12.2\% \text{ or } 12\frac{2}{9}\%}$
 - g) $\frac{35}{56} \rightarrow 35 \div 56 \rightarrow 0.625 \rightarrow \underline{62.5\% \text{ or } 62^{1/2}\%}$
 - i) $\frac{527}{850} \rightarrow 527 \div 850$ (unless you knew it could be reduced by 17!) $\rightarrow 0.62 \rightarrow \underline{62\%}$

- 4) g) If you haven't memorized this, then you can do the following: $\frac{16\frac{2}{3}}{100} \rightarrow \frac{\frac{50}{3}}{\frac{100}{1}} \rightarrow \frac{50}{3} \cdot \frac{1}{100} \rightarrow \frac{1}{6}$ and $0.1\overline{6}$
- 19) $3.4.5 \rightarrow 17; 1.5 \rightarrow 5 \underline{17:5}$
- 20) c) $15 \div 2\frac{1}{2} \rightarrow 6; 1 \cdot 6 \rightarrow \underline{6 \text{ cups}}$
- 21) $\frac{2}{9} \cdot 216 \rightarrow 48; \quad \frac{3}{9} \cdot 216 \rightarrow 72;$ $\frac{4}{9} \cdot 216 \rightarrow 96; \quad \underline{\$48}, \underline{\$72}, \underline{\$96}$

Percents – Sheet #3

3) c)
$$\frac{12}{25} \rightarrow \frac{12 \cdot 4}{25 \cdot 4} \rightarrow \frac{48}{100} \rightarrow \frac{48\%}{48\%}$$

d) $\frac{12}{55} \rightarrow 12 \div 55 \rightarrow 0.2\overline{18}$
 $\rightarrow \underline{21.\overline{81}\%}$ or $\underline{21}\frac{9}{11\%}$

- 5) a) 20% of $45 \rightarrow \frac{1}{5}$ of $45 \rightarrow 9$; $45+9=\underline{54}$ d) 80% of $45 \rightarrow \frac{4}{5}$ of $45 \rightarrow 36$; $45-36 \rightarrow 9$
- 6) i) $0.008 \cdot 3500 \rightarrow 28$
- 7) b) 12 is $\frac{1}{4}$ of some number. That number is then $12 \cdot \frac{5}{1} \rightarrow \underline{48}$
 - c) 13 is $\frac{1}{10}$ of some number. That number is then $13 \cdot \frac{10}{1} \rightarrow \underline{130}$
- 8) $\frac{7}{100} \cdot \frac{250}{1} \to \frac{175}{10}; \quad 17.5 + 250 \to \underline{\$267.50}$ 9) $\frac{1}{5} \cdot 300 \to 60; \quad 300 - 60 \to \underline{\$240}$ 20) c) $3 + 4 \to 7; \quad \frac{4}{7}$
- d) $\frac{3}{7} \cdot 35 \rightarrow \underline{15 \text{ boys}}; \quad \frac{4}{7} \cdot 35 \rightarrow \underline{20 \text{ girls}}$ 21) $x = \frac{5}{8} \cdot \frac{7}{1} \rightarrow \frac{35}{8}; \quad 35 \div 8 \rightarrow 4\frac{3}{8} \text{ or } \underline{4.375 \text{ cm}}$

22)
$$\frac{3}{5} \cdot 330 \rightarrow \frac{\$198}{198}$$

Answer Key

Ra	atio	os I – Sheet #4	7)	a)	Y:X = 15:7
1)	a)	10 cups		b)	B:A = 2:3
	b)	20 cups		c)	L:G = 22:17
	c)	$3^{1/5}$ cups		d)	$J:H = 0.\overline{5}:1$
	d)	2^{1} / cups		e)	Q:E = 1.6:1
2)	u) a)	2.12 cups			
2)	а) т	$2^{\circ} \mathbf{A} = 3^{\circ} \mathbf{W}$	R	ati	os I – Sheet #5
	of	where the number (#)	1)	a)	$B \cdot F = 12 \cdot 5$
	eau	al to 5 times the $\#$	1)	h	$5 \cdot R = 12 \cdot F$
	of	wooden hats		0)	F = 5/ R
	01	$A = \frac{5}{2} W$			$P = \frac{12}{12} D$ $P = \frac{12}{12} E$
	т	he # of aluminum			$D = \frac{17}{5} \Gamma$ E.D = 5.12
	hat	s is $\frac{5}{2}$ the # of		c)	F:B = 3:12
	wo	oden bats		d)	Same answers as
		W = 2/5 A		``	part B
	т	he # of wooden bats		e)	B:F = 2.4:1
	is ²	/s the # of aluminum		t)	$B = 2.4 \cdot F$
	bat	s.			$F = B \div 2.4$
	1.)	100		g)	$F:B = 0.41\overline{6}:1$
	0)	100		h)	$F = 0.41\overline{6} \cdot B$
	c)	20			$B = F \div 0.41\overline{6}$
	d)	³ / ₇	2)	a)	G:B = 5:7
	e)	2/7	Í	b)	D:H = 7:2
	f)	18 wooden and		c)	X:Y = 0.4:1
		45 aluminum		d)	Y:X = 2.5:1
3)	a)	216	3)	a)	B:G = 1.4:1
	b)	45	5)	h)	$H \cdot D = 2\overline{6} \cdot 1$
	c)	280 girls, 350 boys	4)	9) 9)	$X \cdot 7 = 43 \cdot 10$
4)	a)	6cm	7)	a) b)	X.L = 43.10 V.I = 12.4
	b)	36cm	5)	0) 2)	K.J = 15.4
	c)	12.25cm	3)	a)	11073IL.
5)	a)	F:S = 4:5	0	D)	5.4m
2)	h)	$5 \cdot F = 4 \cdot S$	6)	a)	$5 \cdot G = 13 \cdot C$
	0)	F = 4/2 S			$C = 5/_{13} G$
		r = 75 S s = 57 F			$G = \frac{13}{5} C$
		S = 74 T S.E = 5.4		b)	91
	(C)	S:F = 3:4		c)	20
	a)	Same answers as		d)	150 cows, 390 goats
		for part B.	7)		$l\frac{17}{28}$ cups
	e)	S:J = 1.2:1	8)	2	$29^{1}/_{4}$ ft
	f)	$S = 1.2 \cdot J$	9)	2	1
		$J = S \div 1.2$	$\frac{1}{10}$		12
	g)	J:S = 0.83:1	11)		5
	h)	$\mathbf{J} = 0.8\mathbf{\overline{3}} \cdot \mathbf{S}$	12))00
		$S = J \div 0.8\overline{3}$	12)		990 140
6)	a)	5/3	13)	2	140
	b)	⁹ / ₂	14)) (53,000
	c)	$2/_{9}$	15)	4	1600
	d)	$2/_{7}$	16)		16
	e)	1/7	17)) (0.00003
	f)	2 5	18)		11,000
	1) 1)	0.3125	19)		31/2
	g)	0.3123	20)) (0.085
			21)		120
			22)		2500

23) 50	10) a) \$20
24) $2\frac{11}{15}$	b) \$630
25) $21^{\frac{7}{2}}$	c) John has \$150
	Mary has \$210
Deffer I Sheet #C	11) a) 21ft.
Ratios I – Sneet #6	b) $6\frac{1}{2}$ inches
1) a) 16:3	$12)_{a} = 0.00 - 2.00$
b) 5.3:1	12) a) 9 G = 2 C
c) $3\frac{1}{3}$ cups	9 times the # of goals
d) $3\frac{3}{8}$ fl.oz.	of cows
2) a) $X:Y = 3.6:1$	$C = \frac{9}{4}$ G
b) $Y \cdot X = 0.27 \cdot 1$	$C = 7_2 G$ The # of cows is $\frac{9}{6}$
3) a) $X \cdot Y = 7 \cdot 2$	times the $\#$ of goats
b) $M:K = 8:25$	$G = \frac{2}{\alpha}C$
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	The # of goats is $\frac{2}{0}$
(4) a) 27 b) 37	times the # of cows
$(0) = \frac{1}{5}$	b) 891
$(1) \frac{1}{5}$	c) 44
d) 18 boys, 12 girls	d) $36 \operatorname{goats} 162 \operatorname{goats}$
5) 48fl.oz. and 80fl.oz.	13) 8315 5
6) $L:W = 12:5$	$14) 0^{49}$
W:L = 5:12	$14) 9_{\overline{64}}$
L:W = 2.4:1	15) 383 ¹ / ₃
W:L = 0.416:1	16) $2\frac{21}{40}$
7) 8.25mm	17) 315.27
8) $X=14", Y=9\frac{1}{3}"$	18) 0.00004
9) a) 490	,
<i>y</i>) u) 190	
b) 90	Percents – Sheet #1
b) 90 c) 63 1 st class,	Percents – Sheet #1 1) a) $\frac{21}{21}$ 0.21
b) 90 c) 63 1 st class, 147 Economy	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{24}$	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$ 11) 10 $\frac{1}{8}$	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$ 11) $10\frac{1}{8}$ 12) $2\frac{22}{25}$	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53 $\frac{7}{100}$, 0.07
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$ 11) 10 $\frac{1}{8}$ 12) 2 $\frac{22}{25}$ 13) 2 ¹ / ₂	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53 e) $\frac{7}{100}$, 0.07
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$ 11) 10 $\frac{1}{8}$ 12) 2 $\frac{22}{25}$ 13) 2 ¹ / ₂	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53 e) $\frac{7}{100}$, 0.07 f) $\frac{1}{20}$, 0.05
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$ 11) 10 $\frac{1}{8}$ 12) 2 $\frac{22}{25}$ 13) 2 ¹ / ₂ Ratios I – Sheet #7	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53 e) $\frac{7}{100}$, 0.07 f) $\frac{1}{20}$, 0.05 2) a) 0.75
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$ 11) 10 $\frac{1}{8}$ 12) 2 $\frac{22}{25}$ 13) 2 ¹ / ₂ Ratios I – Sheet #7 1) X=1.5cm, Y=1.875cm	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53 e) $\frac{7}{100}$, 0.07 f) $\frac{1}{20}$, 0.05 2) a) 0.75 b) $\frac{3}{6}$
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$ 11) 10 $\frac{1}{8}$ 12) 2 $\frac{22}{25}$ 13) 2 ¹ / ₂ Ratios I – Sheet #7 1) X=1.5cm, Y=1.875cm 2) a) 35:36	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53 e) $\frac{7}{100}$, 0.07 f) $\frac{1}{20}$, 0.05 2) a) 0.75 b) $\frac{3}{4}$
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b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$ 11) 10 $\frac{1}{8}$ 12) 2 $\frac{22}{25}$ 13) 2 ¹ / ₂ Ratios I – Sheet #7 1) X=1.5cm, Y=1.875cm 2) a) 35:36 b) 0.97 $\overline{2}$:1 3) a) G:B = 5:11 b) D:H = 13:3	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53 e) $\frac{7}{100}$, 0.07 f) $\frac{1}{20}$, 0.05 2) a) 0.75 b) $\frac{3}{4}$ 3) 3600 4) a) Fraction or decimal, 63
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$ 11) 10 $\frac{1}{8}$ 12) 2 $\frac{22}{25}$ 13) 2 ¹ / ₂ Ratios I – Sheet #7 1) X=1.5cm, Y=1.875cm 2) a) 35:36 b) 0.97 $\overline{2}$:1 3) a) G:B = 5:11 b) D:H = 13:3 c) W:B = 1 $\overline{1}$:1	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53 e) $\frac{7}{100}$, 0.07 f) $\frac{1}{20}$, 0.05 2) a) 0.75 b) $\frac{3}{4}$ 3) 3600 4) a) Fraction or decimal, 63 b) Fraction, 90 b) Provine 205 1
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$ 11) 10 $\frac{1}{8}$ 12) 2 $\frac{22}{25}$ 13) 2 ¹ / ₂ Ratios I – Sheet #7 1) X=1.5cm, Y=1.875cm 2) a) 35:36 b) 0.97 $\overline{2}$:1 3) a) G:B = 5:11 b) D:H = 13:3 c) W:R = 1. $\overline{1}$:1 d) Y:X = 0.2 $\overline{7}$:1	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53 e) $\frac{7}{100}$, 0.07 f) $\frac{1}{20}$, 0.05 2) a) 0.75 b) $\frac{3}{4}$ 3) 3600 4) a) Fraction or decimal, 63 b) Fraction, 90 c) Decimal, 205.1
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$ 11) 10 $\frac{1}{8}$ 12) 2 $\frac{22}{25}$ 13) 2 ¹ / ₂ Ratios I – Sheet #7 1) X=1.5cm, Y=1.875cm 2) a) 35:36 b) 0.97 $\overline{2}$:1 3) a) G:B = 5:11 b) D:H = 13:3 c) W:R = 1. $\overline{1}$:1 d) Y:X = 0.2 $\overline{7}$:1 4) 3 25:1	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53 e) $\frac{7}{100}$, 0.07 f) $\frac{1}{20}$, 0.05 2) a) 0.75 b) $\frac{3}{4}$ 3) 3600 4) a) Fraction or decimal, 63 b) Fraction, 90 c) Decimal, 205.1 d) Fraction or decimal,
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$ 11) 10 $\frac{1}{8}$ 12) 2 $\frac{22}{25}$ 13) 2 ¹ / ₂ Ratios I – Sheet #7 1) X=1.5cm, Y=1.875cm 2) a) 35:36 b) 0.97 $\overline{2}$:1 3) a) G:B = 5:11 b) D:H = 13:3 c) W:R = 1. $\overline{1}$:1 d) Y:X = 0.2 $\overline{7}$:1 4) 3.25:1 5) H:D = 17:8	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53 e) $\frac{7}{100}$, 0.07 f) $\frac{1}{20}$, 0.05 2) a) 0.75 b) $\frac{3}{4}$ 3) 3600 4) a) Fraction or decimal, 63 b) Fraction, 90 c) Decimal, 205.1 d) Fraction or decimal, 80
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$ 11) 10 $\frac{1}{8}$ 12) 2 $\frac{22}{25}$ 13) 2 ¹ / ₂ Ratios I – Sheet #7 1) X=1.5cm, Y=1.875cm 2) a) 35:36 b) 0.97 $\overline{2}$:1 3) a) G:B = 5:11 b) D:H = 13:3 c) W:R = 1. $\overline{1}$:1 d) Y:X = 0.2 $\overline{7}$:1 4) 3.25:1 5) H:D = 17:8 6) 24 40 and 64 fl or	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53 e) $\frac{7}{100}$, 0.07 f) $\frac{1}{20}$, 0.05 2) a) 0.75 b) $\frac{3}{4}$ 3) 3600 4) a) Fraction or decimal, 63 b) Fraction, 90 c) Decimal, 205.1 d) Fraction or decimal, 80 5) 37%
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$ 11) 10 $\frac{1}{8}$ 12) 2 $\frac{22}{25}$ 13) 2 ¹ / ₂ Ratios I – Sheet #7 1) X=1.5cm, Y=1.875cm 2) a) 35:36 b) 0.97 $\overline{2}$:1 3) a) G:B = 5:11 b) D:H = 13:3 c) W:R = 1. $\overline{1}$:1 d) Y:X = 0.2 $\overline{7}$:1 4) 3.25:1 5) H:D = 17:8 6) 24, 40, and 64 fl.oz.	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53 e) $\frac{7}{100}$, 0.07 f) $\frac{1}{20}$, 0.05 2) a) 0.75 b) $\frac{3}{4}$ 3) 3600 4) a) Fraction or decimal, 63 b) Fraction, 90 c) Decimal, 205.1 d) Fraction or decimal, 80 5) 37% 6) Answers may vary.
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$ 11) 10 $\frac{1}{8}$ 12) 2 $\frac{22}{25}$ 13) 2 ¹ / ₂ Ratios I – Sheet #7 1) X=1.5cm, Y=1.875cm 2) a) 35:36 b) 0.97 $\overline{2}$:1 3) a) G:B = 5:11 b) D:H = 13:3 c) W:R = 1. $\overline{1}$:1 d) Y:X = 0.2 $\overline{7}$:1 4) 3.25:1 5) H:D = 17:8 6) 24, 40, and 64 fl.oz. 7) \$250, \$150, \$100, \$50 8) 45ft	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53 e) $\frac{7}{100}$, 0.07 f) $\frac{1}{20}$, 0.05 2) a) 0.75 b) $\frac{3}{4}$ 3) 3600 4) a) Fraction or decimal, 63 b) Fraction, 90 c) Decimal, 205.1 d) Fraction or decimal, 80 5) 37% 6) Answers may vary. 7) a) 75%
b) 90 c) $63 1^{\text{st}} \text{ class}, 147 \text{ Economy}$ 10) $\frac{5}{36}$ 11) $10\frac{1}{8}$ 12) $2\frac{22}{25}$ 13) $2\frac{1}{2}$ Ratios I – Sheet #7 1) X=1.5cm, Y=1.875cm 2) a) $35:36$ b) $0.97\overline{2}:1$ 3) a) G:B = 5:11 b) D:H = 13:3 c) W:R = 1.\overline{1}:1 d) Y:X = $0.2\overline{7}:1$ 4) $3.25:1$ 5) H:D = 17:8 6) $24, 40, \text{ and } 64 \text{ fl.oz.}$ 7) $\$250, \$150, \$100, \50 8) 45 ft. 9) B:H = 0.5	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53 e) $\frac{7}{100}$, 0.07 f) $\frac{1}{20}$, 0.05 2) a) 0.75 b) $\frac{3}{4}$ 3) 3600 4) a) Fraction or decimal, 63 b) Fraction, 90 c) Decimal, 205.1 d) Fraction or decimal, 80 5) 37% 6) Answers may vary. 7) a) 75% b) 40%
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$ 11) 10 $\frac{1}{8}$ 12) 2 $\frac{22}{25}$ 13) 2 ¹ / ₂ Ratios I – Sheet #7 1) X=1.5cm, Y=1.875cm 2) a) 35:36 b) 0.97 $\overline{2}$:1 3) a) G:B = 5:11 b) D:H = 13:3 c) W:R = 1. $\overline{1}$:1 d) Y:X = 0.2 $\overline{7}$:1 4) 3.25:1 5) H:D = 17:8 6) 24, 40, and 64 fl.oz. 7) \$250, \$150, \$100, \$50 8) 45ft. 9) B:H = 9:5 H:B = 5:0	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53 e) $\frac{7}{100}$, 0.07 f) $\frac{1}{20}$, 0.05 2) a) 0.75 b) $\frac{3}{4}$ 3) 3600 4) a) Fraction or decimal, 63 b) Fraction, 90 c) Decimal, 205.1 d) Fraction or decimal, 80 5) 37% 6) Answers may vary. 7) a) 75% b) 40% c) 90%
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$ 11) 10 $\frac{1}{8}$ 12) 2 $\frac{22}{25}$ 13) 2 ¹ / ₂ Ratios I – Sheet #7 1) X=1.5cm, Y=1.875cm 2) a) 35:36 b) 0.97 $\overline{2}$:1 3) a) G:B = 5:11 b) D:H = 13:3 c) W:R = 1. $\overline{1}$:1 d) Y:X = 0.2 $\overline{7}$:1 4) 3.25:1 5) H:D = 17:8 6) 24, 40, and 64 fl.oz. 7) \$250, \$150, \$100, \$50 8) 45ft. 9) B:H = 9:5 H:B = 5:9 P:H = 1.8.1	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53 e) $\frac{7}{100}$, 0.07 f) $\frac{1}{20}$, 0.05 2) a) 0.75 b) $\frac{3}{4}$ 3) 3600 4) a) Fraction or decimal, 63 b) Fraction, 90 c) Decimal, 205.1 d) Fraction or decimal, 80 5) 37% 6) Answers may vary. 7) a) 75% b) 40% c) 90% d) 29%
b) 90 c) 63 1 st class, 147 Economy 10) $\frac{5}{36}$ 11) 10 $\frac{1}{8}$ 12) 2 $\frac{22}{25}$ 13) 2 ¹ / ₂ Ratios I – Sheet #7 1) X=1.5cm, Y=1.875cm 2) a) 35:36 b) 0.97 $\overline{2}$:1 3) a) G:B = 5:11 b) D:H = 13:3 c) W:R = 1. $\overline{1}$:1 d) Y:X = 0.2 $\overline{7}$:1 4) 3.25:1 5) H:D = 17:8 6) 24, 40, and 64 fl.oz. 7) \$250, \$150, \$100, \$50 8) 45ft. 9) B:H = 9:5 H:B = 5:9 B:H = 1.8:1 H:D = 0 $\overline{5}$.1	Percents – Sheet #1 1) a) $\frac{21}{100}$, 0.21 b) $\frac{1}{4}$, 0.25 c) $\frac{1}{2}$, 0.5 d) $\frac{53}{100}$, 0.53 e) $\frac{7}{100}$, 0.07 f) $\frac{1}{20}$, 0.05 2) a) 0.75 b) $\frac{3}{4}$ 3) 3600 4) a) Fraction or decimal, 63 b) Fraction, 90 c) Decimal, 205.1 d) Fraction or decimal, 80 5) 37% 6) Answers may vary. 7) a) 75% b) 40% c) 90% d) 29% 8) Answers may vary.