Percent Problems

1) $17.45 \times 1.13 = 19.7185$

$\approx \$19.72$

$\therefore$ Josie will pay $19.72

2) $100 - 35 = 65\% = 0.65$

$444.00 \times 0.65 = 288.6$

$\approx \$288.60$

3) $\therefore$ John will pay $288.60

3) $333\% = 3.33$

$1.99 \times 3.33 = 6.6267$

$\approx \$6.63$

$\therefore$ You would pay $6.63

4) $4.5 \times 1.04 \times 1.04 \times 1.04 \times 1.04 =$
$= 5.26436352$
$\approx \$5.26$

$5.26 - 4.5 = \$0.76$

5) $4.5 \times 1.04^4 = \$5.26$

∴ the detergent will cost $ 5.26

6) $45 + 10 = 55$
$55 \times 0.85 = 46.75$
$46.75 \times 1.1 = 51.425 \approx 51.43$

∴ he will have to pay $51.43

7) $2600 \times 0.095 = 247$

∴ there are 247 people working
in the underwear dep.

8) $670 \times 1.0575^2 = \$749.27$

∴ He will have $749.27

9) $32.14 \times 0.05 = 1.607$
≈ 1.61

∴ she must pay $1.61 of penalty

10) $1.49 \times .35 =$

11) $9 \times 1.0625 = 9.5625$
$9.5625 \times 0.86 = 8.22375$
$8.22375 \times 0.05 \approx 0.41$

$\therefore$ $0.41 \lor$ must be paid
of task

12) $740 \times 1.08 = \$799.20$
$740 \times 0.03 = \$22.20$

$799.20 + 22.20 = \$821.40$

$\therefore$ he paid $821.40 in total

13) $67.67 \times 0.33 = \$22.33$

$\therefore$ you would save $2233

Challenge Conversions

Due online [16 marks]

Submit final answers for questions 1 to 8 online. This is due by 11:59 PM on the day before Lesson 24.

Due in class [14 marks]

Submit answers for questions 9 to 15 on lined paper. This is due in class during Lesson 24.

	Percent	**Decimal**	**Fraction**
1.	$1662\frac{26}{27}$	$16.\overline{629}$	$16\frac{17}{27}$
2.	$53\frac{13}{21}\%$	$0.53\overline{619047}$	$\frac{563}{1050}$
3.	$913\frac{8}{9}\%$	$9.13\overline{8}$	$9\frac{5}{36}$
4.	$23700\frac{100}{101}\%$	$237.\overline{0099}$	$237\frac{1}{101}$
5.	$68\frac{2}{11}\%$	$0.6\overline{81}$	$\frac{15}{22}$
6.	$978\frac{4}{7}\%$	$9.7\overline{857142}$	$9\frac{11}{14}$
7.	$7\frac{7}{24}\%$	$0.0729 1\overline{6}$	$\frac{7}{96}$
8.	$55\frac{30}{41}\%$	$0.55\overline{73170}$	$\frac{457}{820}$
9.	$316\frac{61}{300}\%$	$3.16 20\overline{3}$	$3\frac{4861}{30000}$
10.	$6\frac{17}{18}\%$	$0.069\overline{4}$	$\frac{5}{72}$
11.	$15\frac{5}{18}$	$0.152\overline{7}$	$\frac{11}{72}$
12.	$217\frac{2761}{3367}\%$	$2.1\overline{78200}$	$2\frac{600}{3367}$
13.	$723\frac{17}{21}\%$	$7.23\overline{8095}$	$7\frac{5}{21}$
14.	$87\frac{7}{9}\%$	$0.8\overline{7}$	$\frac{79}{90}$
15.	$43\frac{7}{13}\%$	$0.435\overline{38461}$	$\frac{283}{650}$