NAME: _____ BLOCK: _____ DATE: _____

PERCENTS – PRETEST

1. Change the following decimals into percent, if necessary round to the nearest tenth.

(a) 0.05 — 5%

(b) 0.50 — 50%

(c) 0.7 — 70%

(d) 0.25 — 25%

(e) 0.37 — 37%

(f) 1.42 — 142%

(g) 0.092 — 9.2%

(h) 4.7 — 470%

2. Change the following fractions into percent, if necessary round to the nearest tenth.

(a) $\frac{2}{3}$ — 66.7%, $66.\overline{6}\%$

(b) $\frac{1}{6}$ — 16.7%

(c) $\frac{2}{9}$ — 22.2%

(d) $\frac{5}{8}$ — 62.5%

(e) $2\frac{1}{4}$ — 225%

(f) $1\frac{2}{5}$ — 140%

(g) $\frac{13}{15}$ — 86.7%

(h) $\frac{49}{63}$ — 77.8%

3. Change the following percents into decimals, DO NOT round your answers.

(a) 37% — 0.37

(b) 1% — 0.01

(c) 14% — 0.14

(d) 113% — 1.13

(e) 6.6% — 0.066

(f) 0.97% — 0.0097

(g) 75% — 0.75

(h) $\frac{1}{2}\%$ — 0.005

4. Find the following,

A. place in fraction form, mixed number, lowest terms

(a) 20% of 70

$\frac{20}{100} \times 70$

14

(b) 5% of 36

$\frac{5}{100} \times 36$

$\frac{9}{5} = 1\frac{4}{5}$

(c) 10% of 32.5

$\frac{10}{100} \times \frac{325}{10}$

$\frac{65}{20} = \frac{13}{4} = 3\frac{1}{4}$

B. round your answer to the nearest tenth

(d) 96% of 640

$0.96 \times 640 = 614.4$

(e) 17% of 98

0.17×98

$= 16.7$

(f) 2.1% of 60

0.021×60

$= 1.3$

(g) 20 is 105% of what number?

$\frac{20 \times 100}{105} = \frac{400}{21}$

$21\overline{)400}$ 19.04

$= 19.0$

(h) 204 is 300% of what number?

$\frac{204 \times 100}{300} = \frac{204}{3}$

$3\overline{)204}$ 68

$= 68$

(i) 92% of what number is 64?

$\frac{64 \times 100}{92} = \frac{64 \times 25}{23}$

$\frac{1600}{23}$

$= 69.6$

$23\overline{)1600.}$ 69.56

138

220

207

130

115

150

138

12

(j) What percent of 46 is 15?

$\frac{15}{46} = \frac{p}{100}$

$\frac{15 \times 100}{46}$

$= 32.6\%$

$\frac{750}{23}$

$23\overline{)750}$ 32.60

69

60

46

140

140

138

20