Estimation - Using 1 Significant Figure

Name:	Class:	Date:

Mark	/ 10	%

1) Estimate the answer by rounding each number to 1 significant figure first   [7]

a)

$$585.52 + 152.25$$

b)

$$863.29 - 652.96$$

c)

$$182.45 \times 8.3$$

d)

$$27.25 \div 1.5$$

e)

$$3.64 \times 7.84 \div 7.94$$

f)

$$28.212 \times 0.228$$

g)

$$112.286 \div 0.227$$

2) Estimate the answer by rounding each number to 2 significant figures first   [2]

   a)

$$564.93 + 265.96$$

   b)

$$758.97 - 484.22$$

3) Estimate the answer by rounding the base to 1 significant figure first   [1]

$$2.76^3$$

Solutions for the assessment Estimation - Using 1 Significant Figure

1) a) $600 + 200 = 800$
Exact answer = 737.77

b) $900 - 700 = 200$
Exact answer = 210.33

c) $200 \times 8 = 1600$
Exact answer = 1514.335

d) $30 \div 2 = 15$
Exact answer = 18.1666666667

e) $4 \times 8 \div 8 = 4$
Exact answer = 3.59415617128

f) $30 \times 0.2 = 30 \div 5 = 6$
Exact answer = 6.432336

g) $100 \div 0.2 = 100 \times 5 = 500$
Exact answer = 494.651982379

2) a) $560 + 270 = 830$
Exact answer = 830.89

b) $760 - 480 = 280$
Exact answer = 274.75

3) $3^3 = 27$
Exact answer = 21.024576