1) Round to the nearest whole number[1]
37.82) Round to the nearest 10[1]
528
2) Round to two decimal places[1]
9.7265
3) Round to three decimal places ..... [1]
3.9248
4) Round to 3 significant figures

$$
9415
$$

6) Round to 1 significant figure496
7) Estimate the answer by rounding each number to 2 significant figures first

$$
488.47+352.16
$$

8) Estimate the answer by rounding the base to 1 significant figure first
9) Estimate the answer by rounding each number to 1 significant figure first
a)

$$
3.8 \times 16.06 \div 3.96
$$

b)

$$
112.857 \times 0.113
$$

c)

$$
111.262 \div 0.124
$$

10) The number 81 has been rounded to the nearest whole number. Find its lower and upper bounds.
11) The number 300 has been rounded to the nearest 100 . Find its lower and upper bounds.
12) The number 48.7 has been rounded to the nearest 1 decimal place. Find its lower and upper bounds.
13) The number 90 has been rounded to 1 significant figure. Find its lower and upper bounds.
14) Find the upper and lower bounds of $a+b$, where $a=5$ and $b=3$ (both have been rounded to the nearest whole number).
15) Find the upper and lower bounds of $a \times b$, where $a=4$ and $b=5$ (both have been rounded to the nearest integer).
16) Find the upper and lower bounds of $\frac{a}{b}$, where $\mathrm{a}=12$ and $\mathrm{b}=10$ (both have been rounded to the nearest whole number).
17) Find the upper and lower bounds of $a-b$, where $a=13$ and $b=11$ (both have been rounded to the nearest unit).
18) The weight of a pram is 10 kg , correct to the nearest kg .

Find the greatest possible weight of the pram.

Solutions for the assessment Rounding, Estimating and Upper and Lower Bounds

1) 38
2) 530
3) 9.73
4) 3.925
5) 9420
6) 500
7) $490+350=840$

Exact answer $=840.63$
8) $20^{2}=400$

Exact answer $=311.8756$
9) a) $4 \times 20 \div 4=20$
b) $100 \times 0.1=100 \div 10=10$

Exact answer $=15.41111111111$
Exact answer $=12.752841$
c) $100 \div 0.1=100 \times 10=1000$
10) $80.5 \leq 81<81.5$

Exact answer $=897.274193548$
11) $250 \leq 300<350$
12) $48.65 \leq 48.7<48.75$
13) $85 \leq 90<95$
14) $7 \leq a+b<9$
15) $15.75 \leq \mathrm{a} \times \mathrm{b}<24.75$
16) $1.095 \leq \frac{a}{b}<1.316$
17) $1 \leq a-b<3$
18) 10.5 kg

