## **Estimation and Approximation**

Work out an estimate by rounding each number to 1 significant figure.

(a) 
$$39.3 + 43.2$$
 (b)  $213 - 108$ 

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(c) 
$$\frac{876}{29}$$

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 (d)  $\frac{53-11.2}{4.97-1.1}$ 

(e) 
$$\frac{4.9 \times 8.2}{3.91}$$
 (f)  $\frac{4.05}{2.1^2}$ 

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(a) 80 (b) 100

(e) 
$$10 (F) 1$$

Work out an estimate by rounding each number to 1 significant figure.

$$2110 - 893$$
 (b)  $4.6109 + 3.401$ 

(c) 
$$\frac{15.2+84.7}{3.97}$$

$$\frac{.2+84.7}{3.97}$$
 (d)  $\frac{8.49}{1.7}$ 

(e) 
$$\frac{9.03\times6.2}{2.5^2}$$

(f) 
$$\frac{5.02^3}{4.865}$$

1 litre of paint can cover approximately 11 m<sup>2</sup> of wall. Frank wants to paint two walls each of which are 2.15 m high and 6.89 m wide. Estimate how many 1 litre tins Frank will need.

(a) 1100 (b) 8 (c) 25 (d) 4 (e) 6 (f) 25

 $Area = 2 \times 7 \times 2 = 26 \text{m}^2$  $\Rightarrow$ 30 30 = 3 cons

Amir chooses two numbers from the list.

When he rounds the two numbers to 1 decimal place, they are equal.

When he rounds the two numbers to 2 significant figures, they are not equal.

Which two numbers did Amir choose?