1. A cat falls 6 feet from a window.

   How far does the cat fall in centimetres?
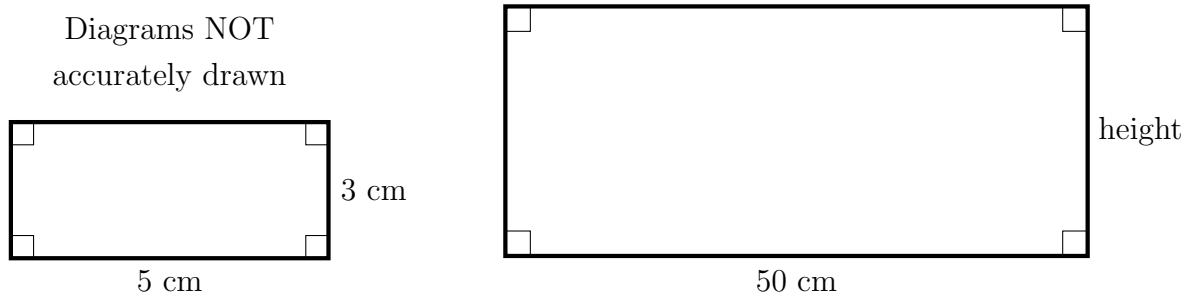
   {The cat walks away unharmed}

   Use 3 feet equals 90 centimetres.

   You may use this proportional line.
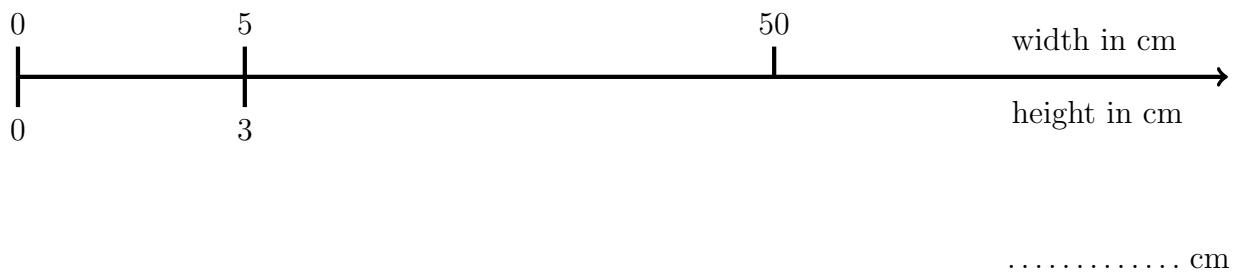

   . . . . cm

2. Here are two similar rectangles. {F.Y.I. the length of their sides are proportional, so they look the same as each other but as if they were further away or closer.}

Diagrams NOT
accurately drawn

3 cm

height

5 cm

50 cm

Work out the height, in centimetres, of the larger rectangle.

You may use this proportional line.

0   5   50   width in cm

height in cm

0   3

.... cm

3. Here is the list of ingredients for making 4 coconut macaroons.

Coconut Macaroons
Ingredients to make 4 macaroons

1		egg whites
40	g	caster sugar
2	g	cream of tarter
15	g	ground almonds
100	g	shredded coconut

Igor is going to make 40 coconut macaroons.

Work out how many grams of ground almonds he should use.

You may use this proportional line.

```
0            4
|------------|---------------------------------------->  number of macaroons
|------------|---------------------------------------->  grams of ground almonds
0            15
```

.... grams

4. Make these equivalent fractions correct.

   Hint: work out the easiest scale factor.

$$\times \,.... \left(\frac{23}{50} \right. = \frac{\boxed{}}{100}$$

$\times \,....$

Answers

1. 180

2. 30

3. 150

4. 46