

# Outcome 1 - Scale Drawings

## Bronze example


Examples...

The diagram shows a scale drawing for a bedroom.

Scale: 1 cm to 3 m

The drawing has a length of 5 cm.

What is the actual length of the bedroom?



Actual Length =  $5 \times 3 = 15$  m

## Silver example


Examples...

The diagram shows a scale drawing for a bedroom.

Scale: 1 cm to 3 m

The actual length of the bedroom is 24 m.

What is the length of the scale drawing?



Actual Length =  $24 \div 3 = 8$  cm

## Gold example


Examples...

The diagram shows a scale drawing for a bedroom.

Scale: 1 cm to 2.5 m

The drawing has a length of 5 cm.

What is the actual length of the bedroom?

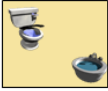


Actual Length =  $5 \times 2.5 = 12.5$  m

## Bronze Questions


For each of the following scale drawings, calculate the actual lengths of the rooms...

1 Scale: 1 cm to 2 m




Length of drawing = 5 cm  
Actual Length = ? m

2 Scale: 1 cm to 3 m




Length of drawing = 7 cm  
Actual Length = ? m

3 Scale: 1 cm to 7 m



Length of drawing = 5 cm  
Actual Length = ? m

4 Scale: 1 cm to 20 m

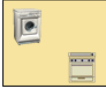


Length of drawing = 8 cm  
Actual Length = ? m

## Silver Questions

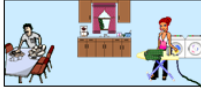
For each of the following, calculate the lengths of the scale drawings...

1 Scale: 1 cm to 2 m




Length of drawing = ? cm  
Actual Length = 12 m

2 Scale: 1 cm to 3 m




Length of drawing = ? cm  
Actual Length = 27 m

3 Scale: 1 cm to 5 m



Length of drawing = ? cm  
Actual Length = 40 m

4 Scale: 1 cm to 20 m




Length of drawing = ? cm  
Actual Length = 140 m

## Gold Questions


For each of the following, calculate the missing lengths...

1 Scale: 1 cm to 3.5 m




Length of drawing = 6 cm  
Actual Length = ? m

2 Scale: 1 cm to 6 m




Length of drawing = ? cm  
Actual Length = 45 m

3 Scale: 1 cm to 8 m



Length of drawing = ? cm  
Actual Length = 36 m

4 Scale: 1 cm to 20.5 m



Length of drawing = 6 cm  
Actual Length = ? m

Bronze Answers

1. Actual Length = 10 m
2. Actual Length = 21 m
3. Actual Length = 35 m
4. Actual Length = 160 m

Silver Answers

1. Drawing Length = 6 cm
2. Drawing Length = 9 cm
3. Drawing Length = 8 cm
4. Drawing Length = 7 cm

Gold Answers

1. Act Length = 21 m
2. Draw Length = 7.5 cm
3. Draw Length = 4.5 cm
4. Act Length = 123 m