

Name

Revision Sheet 6 – SA & Vol (Ch 1)

1. For each of the following shapes, draw a sketch showing the measurements, then find the surface area and volume.

(a) A rectangular prism 20 cm by 15 cm by 8 cm.

(b) A cylindrical tin of fruit with a diameter of 10 cm and a height of 15 cm

(c) A square-based pyramid with a base area of 64 m^2 and a height of 6 m

(d) A conical piece of plastic with a base radius of 3 cm and a height of 4 cm

(e) A sphere with a diameter of 0.4 m

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Revision Sheet 18 – SA & Vol (Ch 1)

2. For each of the following shapes, draw a sketch showing the measurements, then find the surface area and volume.

(f) A container in the shape of a rectangular prism 10 m by 3 m by 2 m.

(g) A cylindrical tin of fruit with a diameter of 12 cm and a height of 14 cm

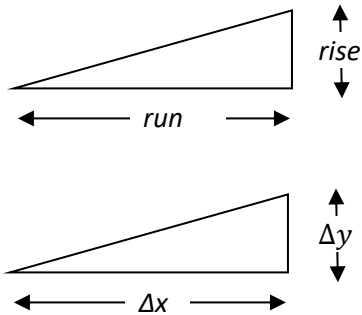
(h) A square-based pyramid with a base area of 100 cm^2 and a height of 4.5 cm

(i) A sphere with a diameter of 0.3 m

1. Complete the following:

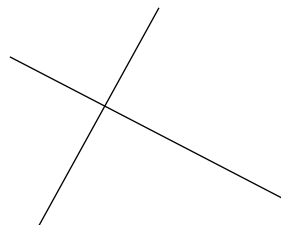
The gradient of a line is the number of
for each
 unit it

It can be calculated using *gradient* =
 $\frac{\text{rise}}{\text{run}}$ or $\text{gradient} = \frac{\Delta y}{\Delta x}$, where Δy is the
 and Δx
 is the

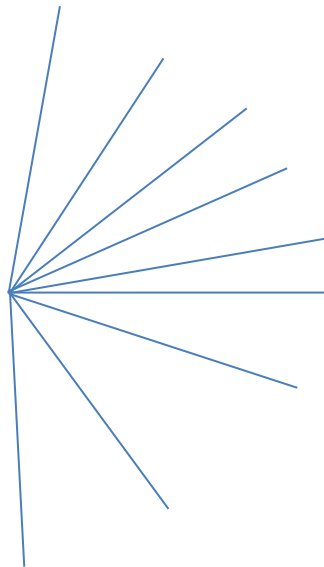


..... lines have the
 same gradient. With perpendicular
 lines, the product of the gradients is . .
, so the gradient of one can
 be worked out from the gradient of the
 other.

2. Two lines are perpendicular. One has
 a gradient of 2. What is the gradient
 of the other?



3. Write an estimate of the gradient at
 the end of each of these lines.



4. Draw lines with the following
 gradients from the point shown. Write
 the gradient at the end of each one.

- 0, 1, 20, 0.2, -1, -2, -5



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Revision Sheet 91 – Length, gradient and midpoint of lines

For each of the following pairs of points, find

- a. the length of the line joining them
- b. the gradient of the line
- c. the midpoint of the line

1. (0, 1) and (4, 4)

2. (-3, 0) and (2, 5)

3. (-1, 6) and (7, 3)

4. (-5, -2) and (4, -5)

Revision Sheet 5M1

Name

Show working on the back of the sheet for the questions marked with a *.

1. Write the name and abbreviation for the metric unit which is closest to: (7Ma)

the area of a finger nail

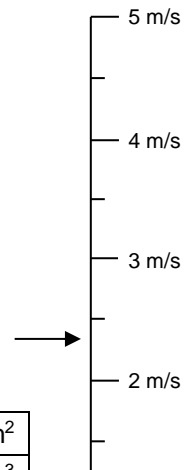
the volume of a wardrobe

2. Read the scale to the right (8Ma)

3. Find the perimeter of a rectangle 12 m by 8 m (8Mb)

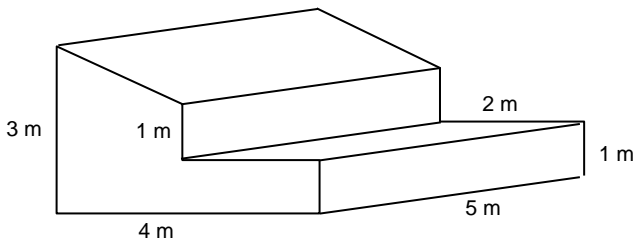
4. Complete the following table.

cm ²	4 m ²	ha	km ²
L	mL	cm ³	0.04 m ³



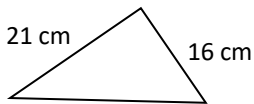
5. * Find the surface area of a cylinder with diameter 2 m and height 8.5 m

6. * Find the volume of this shape

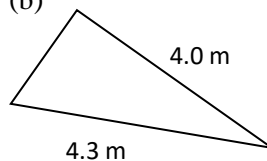


7. * Find the length of the third side of these two right-angle triangles

(a)



(b)

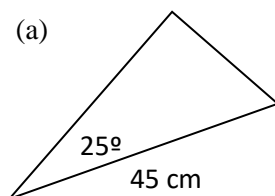


8. Find the gradient of each of the following lines .. (a) (b)

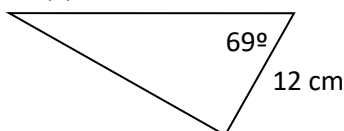


9. * Find all the unmarked sides and angles in the following right-angle triangles.

(a)



(b)



(c)

