4

Find the total surface area of the exposed faces of the Oast House, and the total volume.

You will need the slant height of the cone to find the curved surface area – use Pythagoras' Theorem. Note too that the base of the cone will not form part of the total surface area since it is not an external surface.

Full working can be found on the website Answers: Area = $303 \,\mathrm{m}^3$, Volume = $493 \,\mathrm{m}^3$.

A cylindrical tube of length 40 cm and radius 3.2 cm contains 6 tennis balls each with a radius of 3.14 cm.

- (a) Giving answers to 3SF, find:
 - (i) The volume of the tube
 - (ii) The volume of one tennis ball
- (b) Hence find the volume of empty space in the tube.

 $= 129.68 \times 6 = 778.1 \text{ cm}^3$

- (a) (i) V = πr²I = π × 3.2² × 40 = 1286.7...
 Volume of tube = 1290 cm²
 - (ii) $V = \frac{1}{2}\pi r^3 = \frac{1}{2}\pi \times 3.14^3 = 129.68...$

Volume of ball = 130 cm3

(b) Volume of 6 tennis balls

Empty space	= 1286.7 - 778.1 = 508.6
	= 509 cm3 to 3SF

If you're going to use a formula, write it down. This shows the examiner what you are using, and helps you to substitute values correctly.

This question is yet another good example of the importance of working to a higher accuracy than the required answer. If the first two rounded answers were used to obtain the final answer, the result would have been

 $1290 - 6 \times 130 = 510$.

Answers.

devent.

- 1. 5.44km, 272.2°
- 2. 10 cm, 13 cm, 67.4°, 12.4 cm, 76.0°, 5 cm, 40.6°
- 3. Volume of cone = 25.1 cm³ Volume of each sphere = 0.524 cm³ 47 spheres, with a bit left

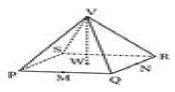
Geometry: Practice Exercise

- Three boats P, Q and R are at anchor in a bay. The bearing of P from R is 046°, and of Q from P is 125°. The distance of R from P is 3 km, and of P from Q is 4 km.
 - Draw a clear diagram showing all the information.
 - b) Calculate:
 - i) the distance of R from Q;
 - ii) the bearing of R from Q.
- The diagram shows a right pyramid with:

PQ = 8 cm, QR = 6 cm, VW = 12 cm.

W is at the centre of the base, M and N are the midpoints of PQ and QR. Calculate:

- a) PR
- b) PV
- c) Angle VPW
- d) VM



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