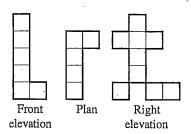
## **Revision & Practice**

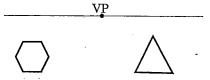
## worksheet 20

#### A Geometric: Drawing diagrams of solids

1 Make an isometric drawing to represent the structure shown in this plan and elevation diagram.



Complete a one-point perspective drawing of these hexagonal and triangular prisms:



### **B** Algebra: Constructing practical equations

**Skill 3.13** 

Set up an equation and solve it to complete the question:

- 1 If my science test score was twelve less than my maths test score and together I scored 138 marks, what was the score in each subject?
- The width of a rectangular block of land is 5 metres shorter than its length. If the perimeter of the block is 50 metres find its length and width.

#### C Cartesian plane: Simultaneous equations

Skill 5.5

Solve these simultaneous equations using algebraic techniques and sketch each pair on the same set of axes to check where they cross.

$$\begin{array}{ccc}
\mathbf{2} & y+x=4 \\
x-y=-2
\end{array}$$

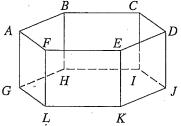
#### D Geometry: Describing properties of solids

- 1 List all the faces parallel to the plane of:
  - (a) ABGH
- (**b**) *BCHI*
- (c) ABCDEF

(d) AFGL

List all the faces perpendicular to the plane of:

**ABCDEF** 



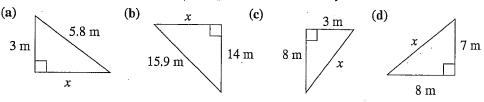
**Skill 6.6** 

- 2 Draw the cross-sections parallel to, and perpendicular to, the base of:
  - triangular-based prism
- (b) cube
- (c) pentagonal-based pyramid

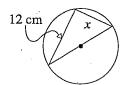
#### E Measurement: Pythagoras' theorem in two dimensions

**Skill 7.1** 

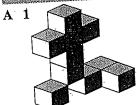
1 Find the missing lengths to two decimal places where necessary:

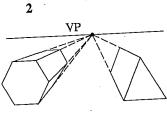


Find the length marked x in this circle whose radius is 10 cm:



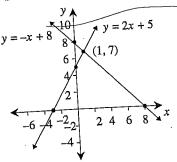
# Worksheet 20

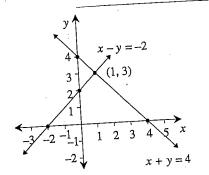




- **B** 1 Maths 75 Science 63
- 2 length = 15 mwidth = 10 m

C 1





- **D** 1 (a) *EDKJ*
- **(b)** *EFLK*
- (c) GHIJKL
- (d) CDIJ
- 2 AFGL, ABGH, BCH I, CDIJ, EDKL, EFLK
- 3
- Parallel
- Perpendicular



- (b)
- (c)
- E 1 (a) 4.96 m
- (c) 8.54 m
- **(b)** 7.54 m (d) 10.63 m
- 2 16 cm