

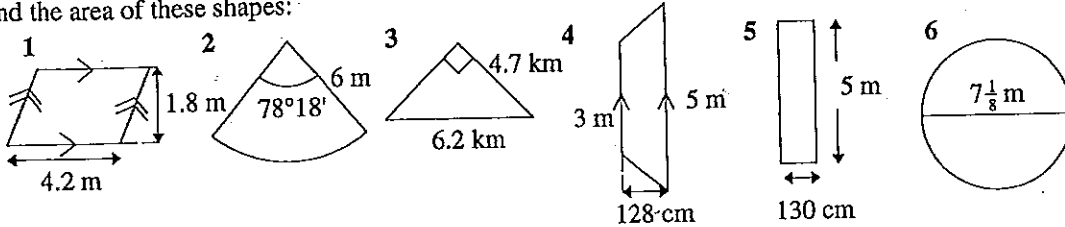
Revision & Prac

Worksheet 29

Skill 7.4

A Measurement: Area of simple shapes

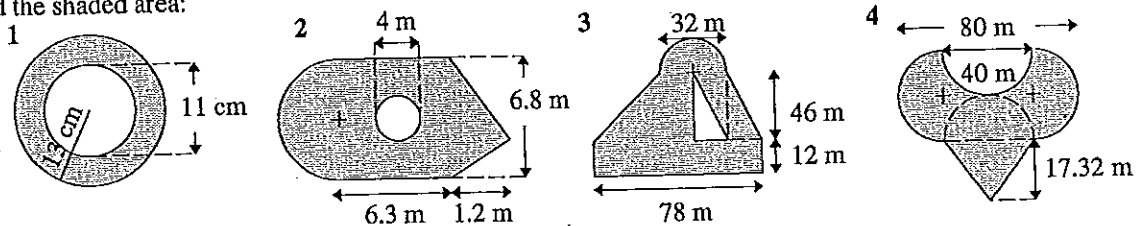
Find the area of these shapes:



Skill 7.5

B Measurement: Composite areas

Find the shaded area:

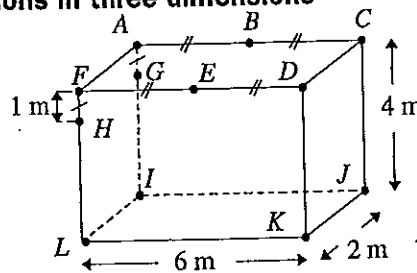


Skill 8.9

C Trigonometry: Practical applications in three dimensions

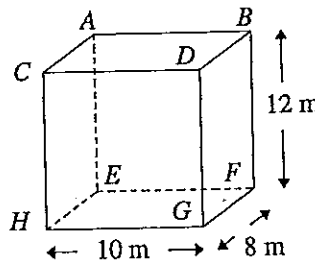
1 Find the angle between the planes:

- $ACDF$ and $GCDH$
- $AGHF$ and $GCDH$
- $IJKL$ and $LIEB$
- $AFHG$ and $GBEH$



2 Find the angle that the body diagonal of this cuboid makes with the faces:

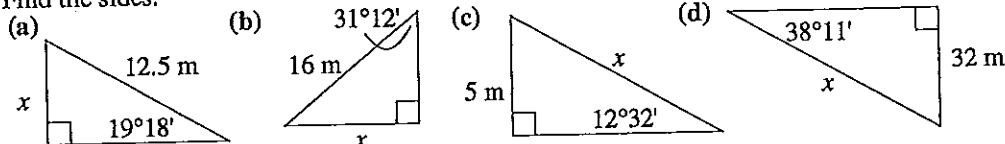
- $EFGH$
- $ABFE$
- $BDGF$



Skill 8.1

D Trigonometry: Using sin to find side lengths

1 Find the sides:



- A yacht sails 7 km on a bearing $S23^\circ W$. How far west is it from its starting point?
- A person sights a ship at sea from the top of a cliff with an angle of depressions of $32^\circ 14'$. If the distance between the person and the ship (hypotenuse of the triangle) is 890 m, find how far the ship is from the base of the cliff.

Skill 9.4

E Chance and data: Interquartile range and box and whisker plots

The following figures represent the basketball scores shot by each player in a game:

Jenny: (4, 8, 8, 10, 11, 12, 14, 14, 20)

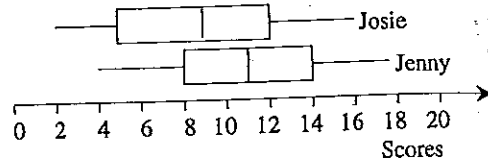
Josie: (1, 5, 5, 7, 9, 10, 21, 13, 16)

Find each person's interquartile range and draw a box and whisker plot for each in order to judge who should get the sharp shooters prize for the season.

Worksheet 29

- A 1 7.56 m^2 2 24.60 m^2 3 9.635 km^2
 4 5.12 m^2 5 6.5 m^2 6 39.87 m^2
- B 1 435.90 cm^2 2 52.51 m^2 3 3500.12 m^2
 4 2574.72 m^2
- C 1 (a) 9.46° (b) 80.54° (c) 53.13°
 (d) 71.57°
 2 (a) 43.14° (b) 27.12° (c) 34.74°
- D 1 (a) 4.13 m (b) 8.29 m (c) 23.04 m
 (d) 51.76 m
 2 2.74 km
 (a) 752.84 m

- E Interquartile range:
 Jenny 6 Josie 75.



Jenny's scores are generally higher and more consistent (box smaller) than Josie's so Jenny gets the prize.