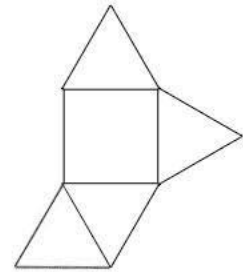


## Interleaf 5

- 1) Name the 3D shape represented by the net to the right
- 2) Calculate  $7 - \frac{\sqrt{16+2^2}}{2}$
- 3) Silke walk  $2\frac{1}{3}$  km in the morning and then  $1\frac{3}{4}$  km in the afternoon.



- $\frac{2}{7}$  of this is on the lead. How far does Silke walk on the lead?
- 4) A triangle has side lengths of 5cm, 6cm and 8cm. Without drawing it determine if it is a right angled triangle. If not, is the largest angle acute or obtuse?
  - 5) Which of the following numbers are prime:  
55, 12, 3, 2, 1, 9, 27, 31, 47
  - 6) Dan did 32 hours at work last week and 34 hours at work this week. Find the percentage increase in his working hours.
  - 7) Marita's garden is  $30\text{m}^2$ . It contains a lawn that measures 3.2m by 2.4m.  
Find the percentage of her garden that is comprised of lawn.
  - 8) My wages are divided into what I take home, income tax and national insurance in the ratio 11:3:1.  
I earn £33,000 a year. How much do I pay in income tax?

## Answers

- 1) square based pyramid 2) 3 3)  $1\frac{1}{6}$ km 4) no, not right angled, obtuse. 5) 3, 2, 31, 47 6) 6.25% 7) 25.6%  
8) £6,600