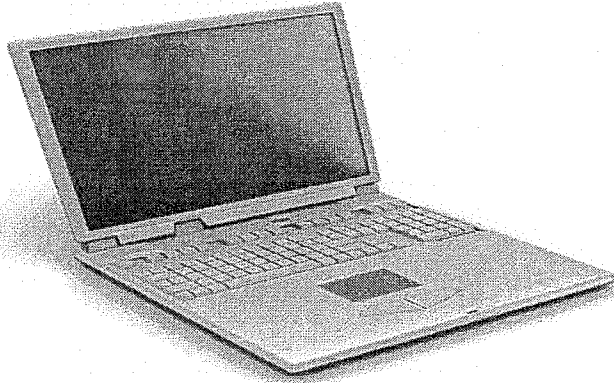


Practise NAT & Numeracy

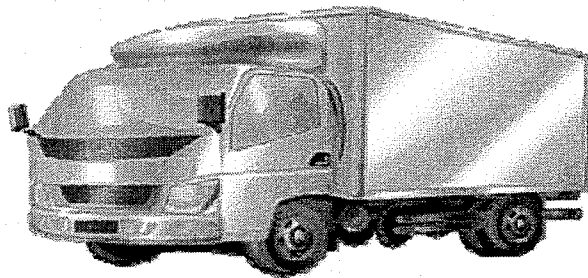
1. Dave bought a new Laptop Computer. The price was £350 plus VAT.



VAT is charged at 20%.

What is the total price?

2. An empty lorry has a weight of 9,500 kg. When thirty identical fridge/freezers are boarded, it has a weight of 11,900 kg.



What is the weight of one fridge/freezer?

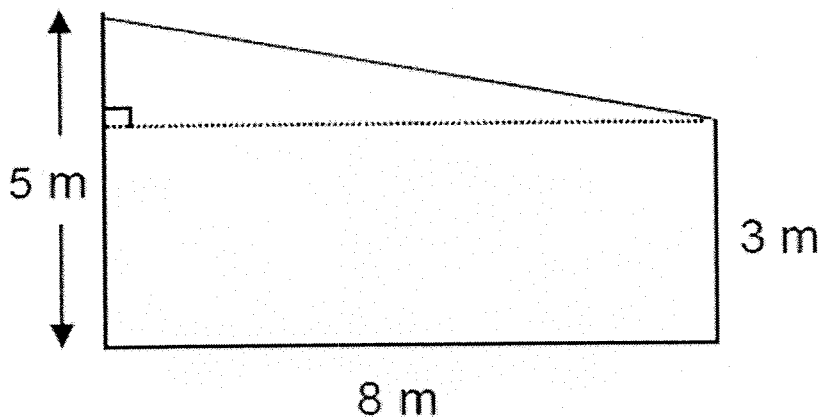
3. A family plan to visit Disneyland Paris, in France.

Foreign Exchange Rates	
£1 buys	
USA	1.41 dollars
France	1.26 euros
Japan	192.95 yen

They want to exchange £950 into euros.

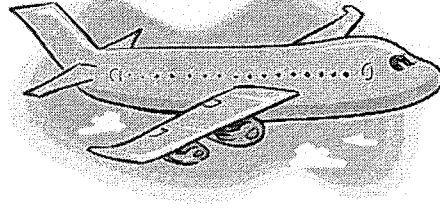
How many euros will they get?

4. The side of a small, storage building needs to be painted.



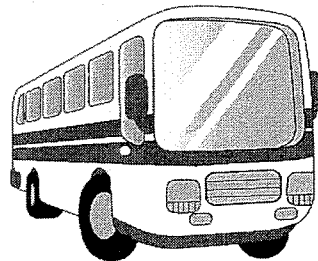
What area of wall needs to be painted?

- 10:45
5. a) A plane leaves Edinburgh Airport at 2245 on Thursday and arrives in Athens at 0305 (British time) on the Friday.



How long did the flight take?

- b) A bus journey from Dundee to Newcastle took 3 hours and 45 minutes. If the bus set off from Dundee at 0740, when did it arrive in Newcastle?



- c) John has an interview in Aberdeen at 0915 on a Monday morning. He reckons he could make the journey from his home in Forfar to the interview in 1 hour and 10 minutes. He would like to arrive at least 20 minutes before the interview begins. What is the latest time that John should leave his home?



6. An athlete runs at a constant speed of 6 mph for 15 minutes.



How far does he travel in this time?

7. In the Sahara desert, the temperature during the day reaches 38°C , and then falls to -4°C at night. What is the range in temperature from day to night? (the diurnal range)

8. Bill is 15 years old. His brother, Ben, is 12 years old.
Their grandfather gives them $\pounds 180$, which they are to divide between themselves in the ratio of their ages.

Bill takes $\pounds 110$ for himself.

Is this fair? Justify your answer by calculation.

9. Two shops are selling the same model of games console. These are the different deals that they are offering.

Gamebusters

Visualstation

Deposit $\pounds 80$

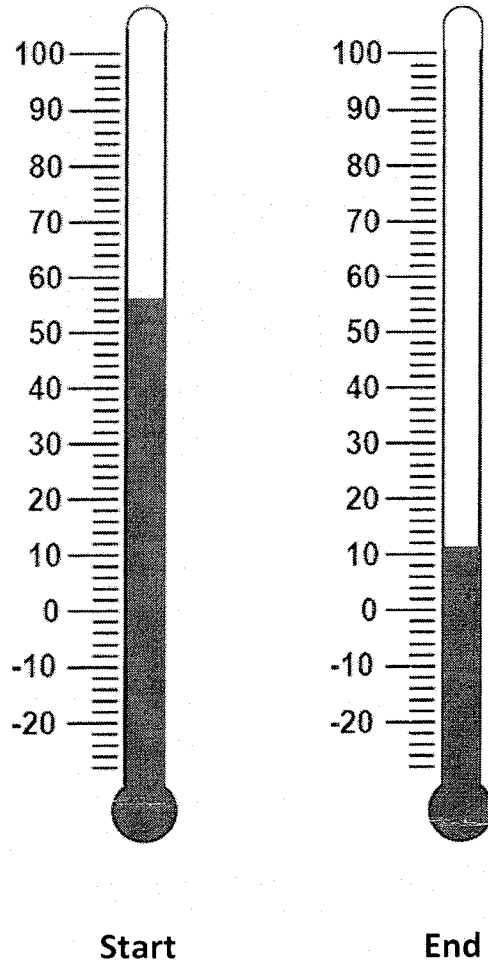
Deposit $\pounds 110$

Four payments of $\pounds 38.60$

Four payments of $\pounds 32.20$

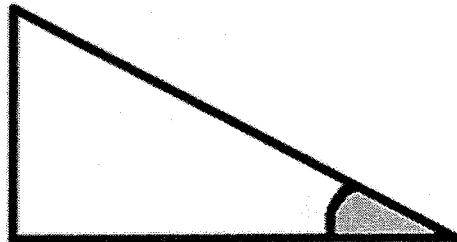
Which shop has the better deal? Justify your answer by calculation.

10. The temperature of a liquid was recorded at the beginning and at the end of an experiment.



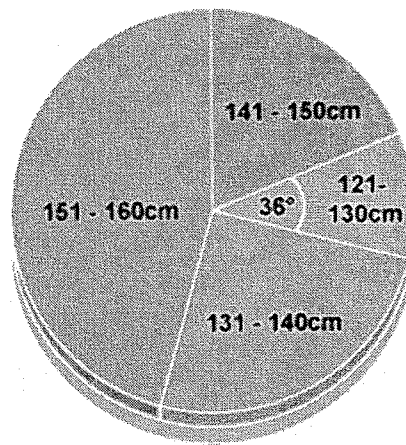
What was the drop in temperature in this experiment?

11. The triangle below is right-angled.



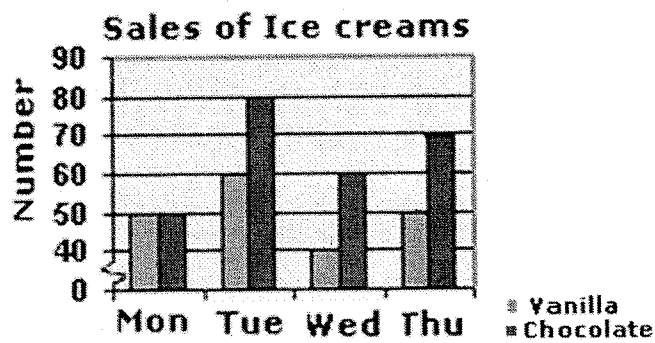
- Measure the length of the longest side.
- Measure the size of the shaded angle.

12. The pie chart below shows the heights (in cm) of 240 pupils in the whole of S3.



How many pupils are between 121 – 130 cm tall?

13. The sales of ice cream flavours were recorded over a four day period. The compound bar graph below gives the results of the data collected.



- How many Vanilla ice creams were sold on Tuesday?
- Compare the numbers of Vanilla and Chocolate ice creams sold across the four day period.

14. At a charity event, there are two very similar stalls. Stall A has a board of 49 squares, with a prize behind one of the squares. Stall B has a board of 64 squares, with a prize behind one square.

Susan buys 8 squares at stall A, and 10 squares at stall B.

At which stall does Susan have a better chance of winning a prize?

Justify your answer by calculation.

