1 On Monday, Sandy pays for 2 plane tickets, 7 nights in a hotel and 2 theme park tickets.

	dollars
each plane ticket	600
each night in a hotel	120
each theme park ticket	250

Show that Sandy pays more than 2500 dollars on Monday.

(Total for Question 1 is 3 marks)

2 Corina has £300 to spend on books. Each book costs £4.85

Work out the greatest number of books Corina can buy.

(Total for Question 2 is 3 marks)

- **3** A stadium cost £600 million.
  - $\frac{13}{15}$  of this cost was for the building.

The rest of the cost was for the land.

Work out the cost of the land.

£	million
---	---------

## (Total for Question 3 is 3 marks)

4 Simon buys some candles.

Each candle costs £2

Simon pays with a £20 note.

He gets £6 change.

Work out the number of candles Simon buys.

(Total for Question 4 is 3 marks)

	(Total for Question 5 is 2 marks)	
		°C
	Work out the highest temperature in Norway last year.	
5 I	In Norway last year, the lowest temperature was $-15^{\circ}$ C.  In Norway last year, the highest temperature was $42^{\circ}$ C greater than the lowest temperature.	

**6** At the end of October, Fiona's electricity meter reads 88738 kWh. At the end of November, her electricity meter reads 89198 kWh.

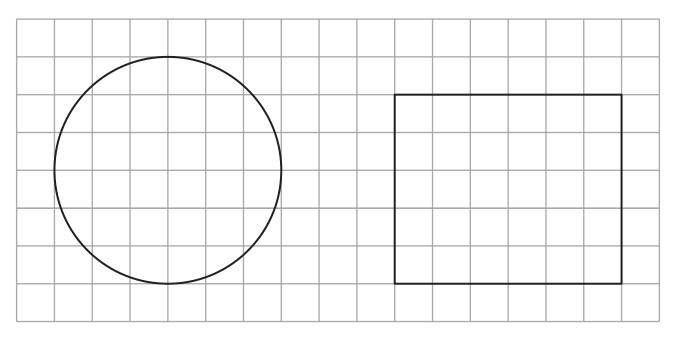
Each kWh of electricity Fiona uses costs 16p

Work out how much Fiona had to pay for the electricity she used in November.

(Total for Question 6 is 4 marks)

savio leaves his home at 07 30 to drive to work.	
He drives a distance of 50 miles.	
Savio thinks he drives at an average speed of 40 miles per hour.	
(a) If Savio is correct, at what time will he arrive at work?	
	(3)
	(3)
In fact, Savio's average speed was greater than 40 miles per hour.  (b) How does this affect your answer to part (a)?	(3)
	(3)
	(3)
	(3)
	(3)

**8** The centimetre grid shows the plan and the front elevation of a cylinder.



Plan Front elevation

Work out the volume of the cylinder. Give your answer in terms of  $\pi$ 

..... cm<sup>3</sup>

**9** A delivery company has a total of 160 cars and vans.

the number of cars: the number of vans = 3:7

Each car and each van uses electricity or diesel or petrol.

 $\frac{1}{8}$  of the cars use electricity.

25% of the cars use diesel.

The rest of the cars use petrol.

Work out the number of cars that use petrol.

You must show all your working.

10 Sonia wants to book a holiday. The holiday will cost £1428

Sonia will pay a deposit of £150 She will then pay the rest of the cost in 6 equal monthly payments.

How much is each monthly payment?

£.....

(Total for Question 10 is 3 marks)

11	This	sign	was	in	a	doctor?	's	waiting	room.

115 appointments were missed last month.

These missed appointments were a total of 25.3 hours.

Work out the mean length of time for each missed appointment. Give your answer in minutes.

..... minutes

(Total for Question 11 is 3 marks)

12 Nimra buys a 3 kg box of sweets for £17.60

She puts the sweets into bags to sell. Each bag contains 150 g of sweets.

Nimra fills as many bags as possible. She will sell each bag for the same price.

Nimra wants to make a profit of at least 35%

Assuming she sells all the bags, what is the lowest price Nimra should charge for each bag?

£.....

(Total for Question 12 is 5 marks)

13 Festival A will be in a rectangular field with an area of 80 000 m<sup>2</sup> The greatest number of people allowed to attend Festival A is 425 Festival B will be in a rectangular field 700 m by 2000 m. The greatest number of people allowed to attend Festival B is 6750 The area per person allowed for Festival B is greater than the area per person allowed for Festival A. (a) How much greater? Give your answer correct to the nearest whole number. ..... m<sup>2</sup> **(4)** Callum says, "300 cm<sup>2</sup> is the same as 3 m<sup>2</sup> because there are 100 cm in 1 m so you divide by 100"

Callum's method is wrong.

(b) Explain why.

(1)

(Total for Question 13 is 5 marks)

14 The table shows the total number of apples sold and the total number of oranges sold in a shop in each of three weeks.

	Week 1	Week 2	Week 3
Number of apples	86	75	92
Number of oranges	68	80	76

In total for the three weeks, more apples than oranges were sold. How many more?

(Total for Question 14 is 3 marks)

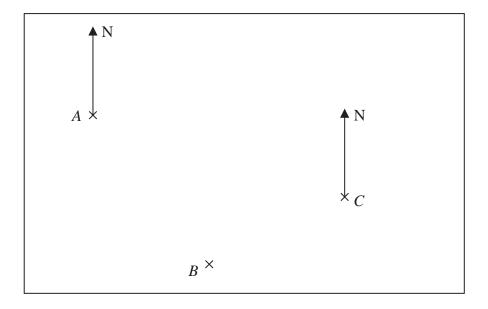
15 Sinita wants to make 35 picture frames. She needs 4 nails for each frame.

Sinita has 3 boxes of nails. There are 48 nails in each box.

Has Sinita got enough nails to make all 35 frames? Show how you get your answer.

(Total for Question 15 is 3 marks)

16 The accurately drawn map shows the positions of three points, A, B and C, in a field.



Scale: 1 cm represents 150 metres

Parveen walks in a straight line from *A* to *B*. She then walks in a straight line from *B* to *C*.

Susan walks in a straight line from A to C.

Parveen walks more metres than Susan.

(a) How many more?

	(Total for Question 16 is 4 marks)		
(b) I find by measurement the bearing of A from C.		0	
(b) Find by measurement the bearing of <i>A</i> from <i>C</i> .	m (3)		

- 17 There are 400 counters in a box. The counters are red or yellow or green.
  - $\frac{3}{8}$  of the counters are red.
  - 82 of the counters are yellow.

What percentage of the counters are green?

.....%

(Total for Question 17 is 4 marks)

18 Rick, Selma and Tony are playing a game with counters.

Rick has some counters.

Selma has twice as many counters as Rick.

Tony has 6 counters less than Selma.

In total they have 54 counters.

the number of counters Rick has: the number of counters Tony has = 1 : p

Work out the value of p.

*p* = .....

(Total for Question 18 is 5 marks)

..... miles per hour

(Total for Question 19 is 4 marks)

19 Jessica runs for 15 minutes at an average speed of 6 miles per hour. She then runs for 40 minutes at an average speed of 9 miles per hour. It takes Amy 45 minutes to run the same total distance that Jessica runs. Work out Amy's average speed. Give your answer in miles per hour.

20 The value of Michelle's car has decreased by 15% The car now has a value of £13600

Work out the value of Michelle's car before the decrease.

£.....

(Total for Question 20 is 2 marks)