

Write your name here

Surname

Other names

Centre Number

Candidate Number

Edexcel Award

Proficiency in Number and Measure
Level 2
Section A (Calculator)

Thursday 10 May 2012 – Morning
Time: 1 hour

Paper Reference
ANM20/2A

You must have: Ruler graduated in centimetres and millimetres, protractor, pen, HB pencil, eraser, calculator.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- **Calculators may be used.**
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.



Information

- The total mark for this section is 50
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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PEARSON

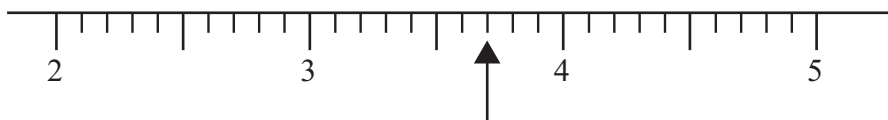
Section A

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

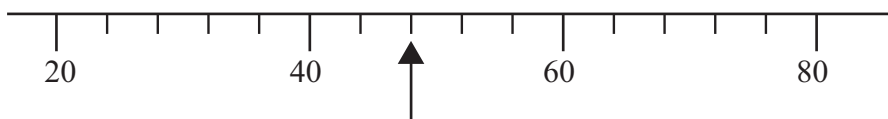
1 (a)



Write down the number marked with the arrow.

.....
(1)

(b)



Write down the number marked with the arrow.

.....
(1)

(Total for Question 1 is 2 marks)

2 Increase £6.40 by 5%.

£

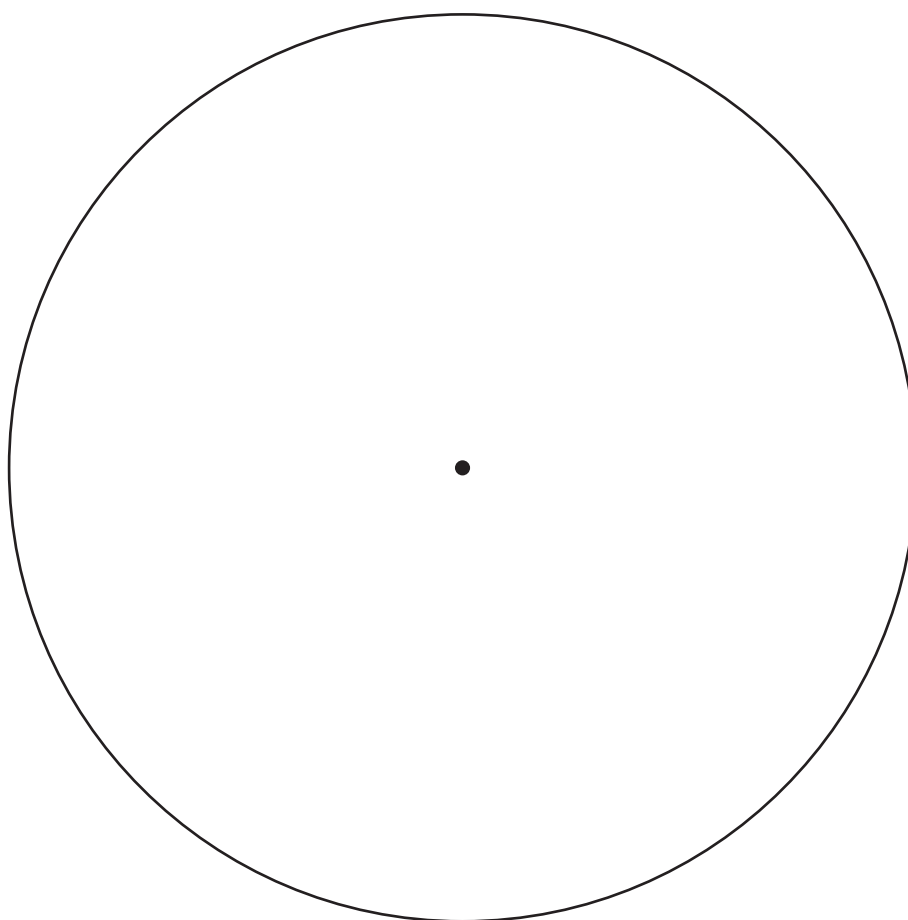
(Total for Question 2 is 3 marks)



3 This table shows the number of tracks of each type of music on Jake's mp3 player.

Type of music	Frequency	Degrees
Rock	20	
Pop	40	120°
Classical	60	

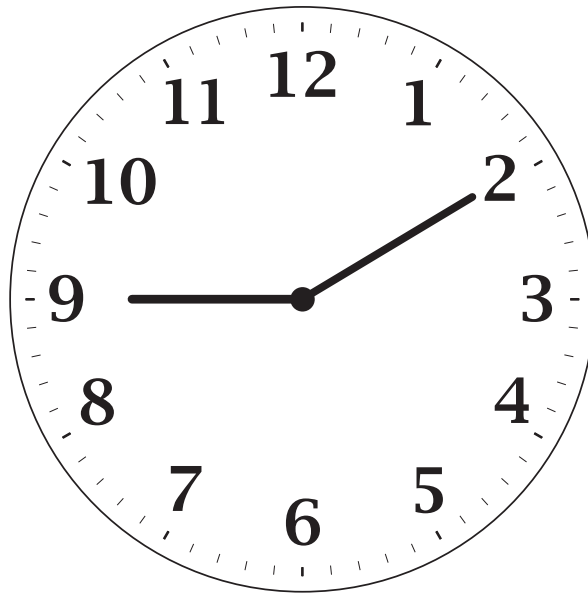
Draw a pie chart to show this information.



(Total for Question 3 is 4 marks)



P 4 1 2 4 9 A 0 3 1 2



It is morning and Jed is going shopping.
 He catches a bus at the time shown on the clock.
 The bus arrives at the shops at a quarter to eleven.

How long did the bus journey take?

.....

(Total for Question 4 is 3 marks)

5 Amy, Ben and Cath share £36 in the ratio 1 : 2 : 3

How much does each of them get?

Amy £

Ben £

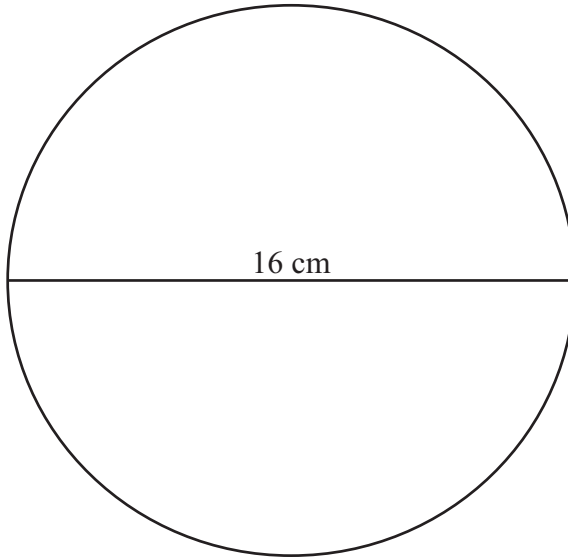
Cath £

(Total for Question 5 is 3 marks)



6

Diagram **NOT**
accurately drawn



A circle has a diameter of 16 cm.
Work out the area of the circle.

..... cm²

(Total for Question 6 is 3 marks)

7 Find the Lowest Common Multiple (LCM) of 20 and 24

.....

(Total for Question 7 is 3 marks)



8 Tom invests £500 for 2 years simple interest at a rate of 3.5% per year.

Work out the total amount of interest.

£

(Total for Question 8 is 3 marks)

9 (a) Find the value of $\sqrt{2.25}$

.....
(1)

(b) (i) Find the value of 3.5^3

(ii) Give your answer to 1 decimal place.

.....
(2)

(c) Work out $\sqrt{3^2 + 4^2}$

.....
(2)

(Total for Question 9 is 5 marks)



10 Last week Kaz worked for 25 hours at £5.75 per hour.

Her deductions were

National Insurance of £6.20

Income Tax of £10.96

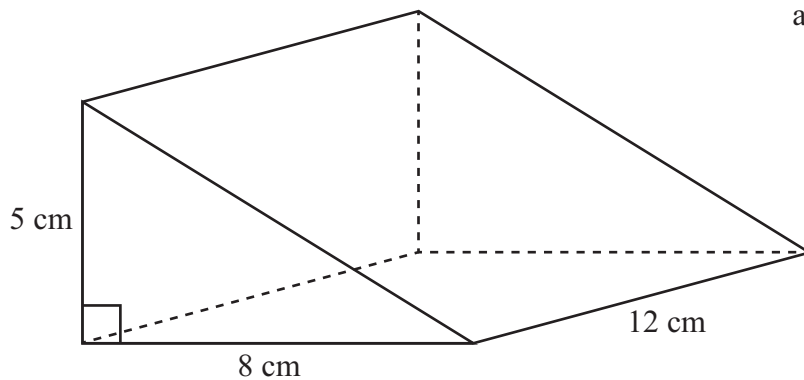
Work out Kaz's wage after these deductions.

£

(Total for Question 10 is 4 marks)

11 Here is a triangular prism.

Diagram NOT
accurately drawn



Work out the volume of the prism.

..... cm³

(Total for Question 11 is 3 marks)



12 Which is bigger

$\frac{3}{4}$ of 60 or 70% of 64?

You must show your working.

.....

(Total for Question 12 is 3 marks)

13 The diagram shows a shaded border around a picture.

The outside of the border is 12 inches by 8 inches.

The inside of the border is 9 inches by 5 inches.

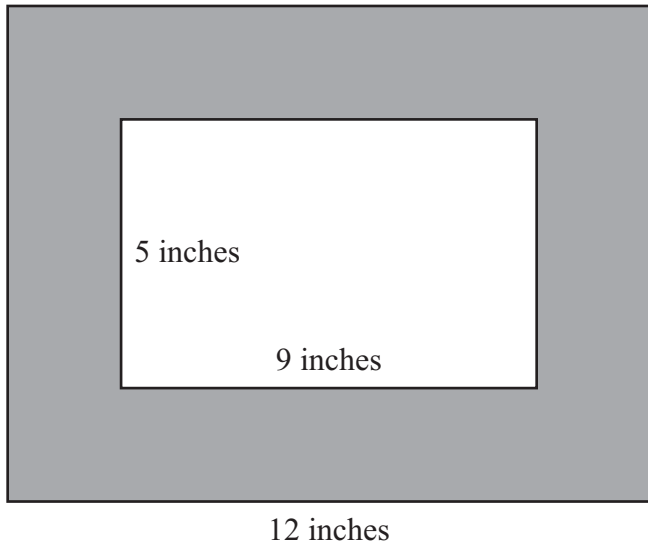


Diagram **NOT**
accurately drawn

Find the area of the shaded border.

..... square inches

(Total for Question 13 is 4 marks)



14 Jo changed £350 into dollars (\$).
The exchange rate was £1 = \$1.35

(a) Work out how many dollars Jo got.

\$
(2)

Kevin changed £200 into dollars (\$).
He received \$266

(b) Work out the exchange rate he got.

£1 =
(2)

(Total for Question 14 is 4 marks)

15 A semicircle has a diameter of 12 cm.

Work out the perimeter of the semicircle.

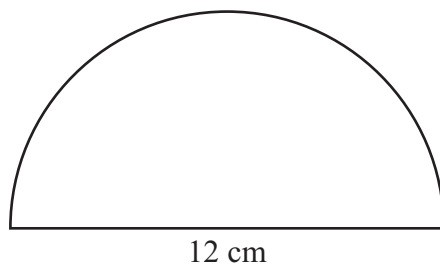


Diagram **NOT**
accurately drawn

..... cm

(Total for Question 15 is 3 marks)

TOTAL FOR SECTION A IS 50 MARKS



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