

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  $\pi$  button, take the value of  $\pi$  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**

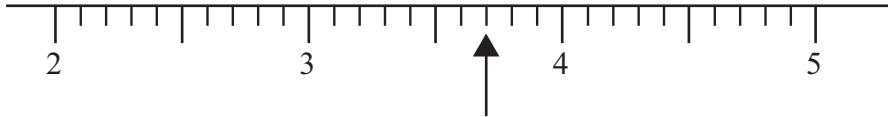
**Section A**

**Answer ALL questions.**

**Write your answers in the spaces provided.**

**You must write down all stages in your working.**

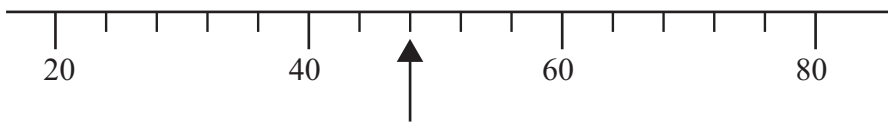
**1 (a)**



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%.**

£ .....

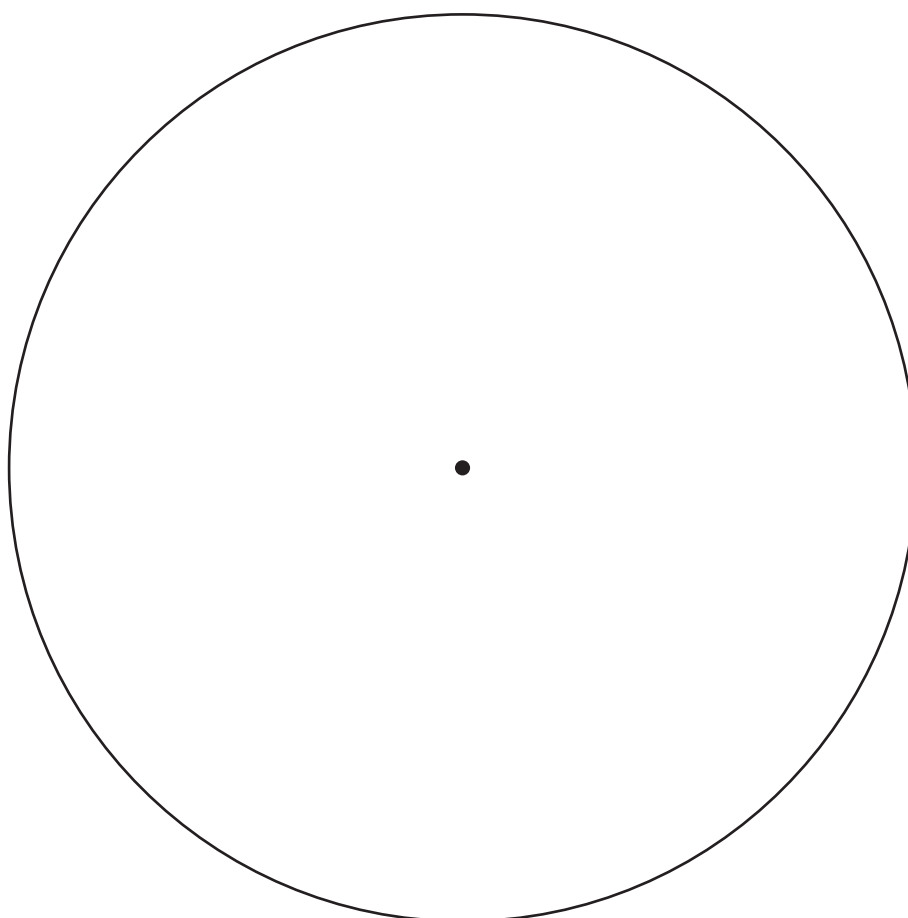
**(Total for Question 2 is 3 marks)**



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

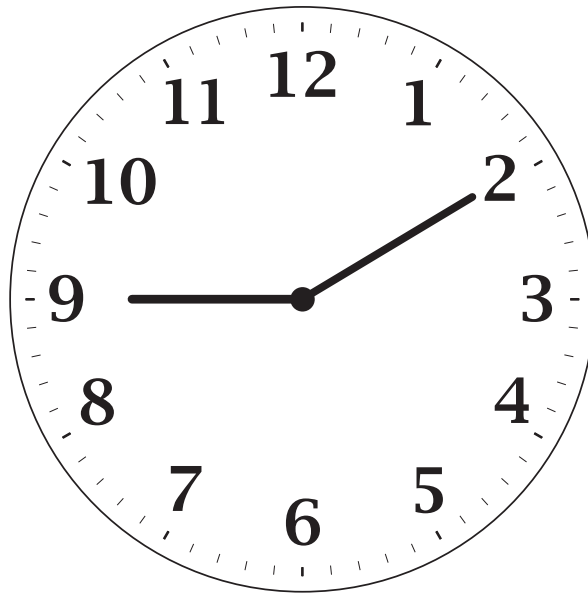
Type of music	Frequency	Degrees
Rock	20	
Pop	40	120°
Classical	60	

Draw a pie chart to show this information.



(Total for Question 3 is 4 marks)





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 £ .....

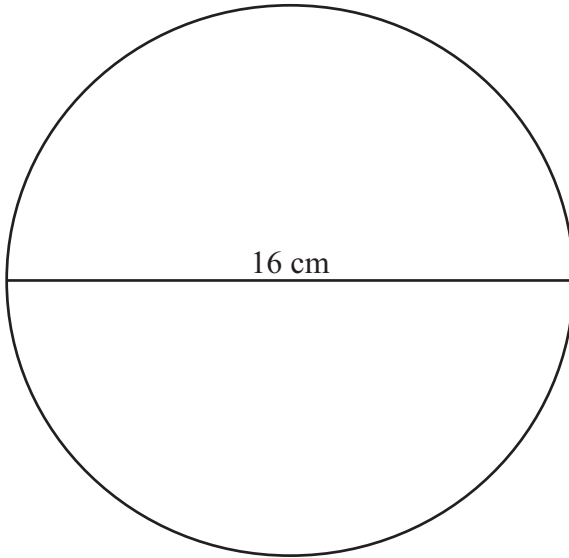
Cath £ .....

**(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.

..... cm<sup>2</sup>

**(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

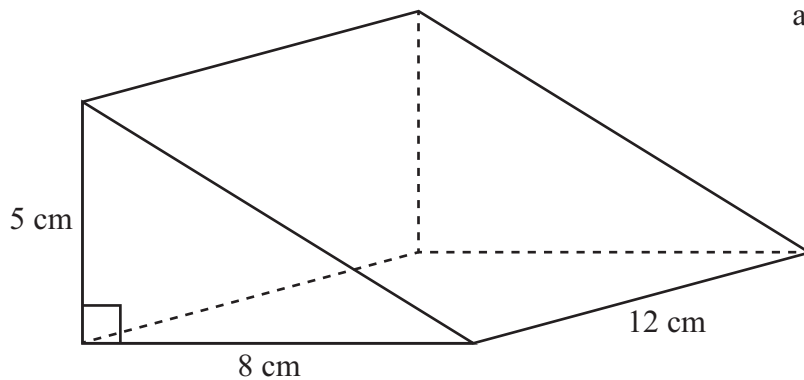
Work out Kaz's wage after these deductions.

£ .....

(Total for Question 10 is 4 marks)

11 Here is a triangular prism.

Diagram NOT  
accurately drawn



Work out the volume of the prism.

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

(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.

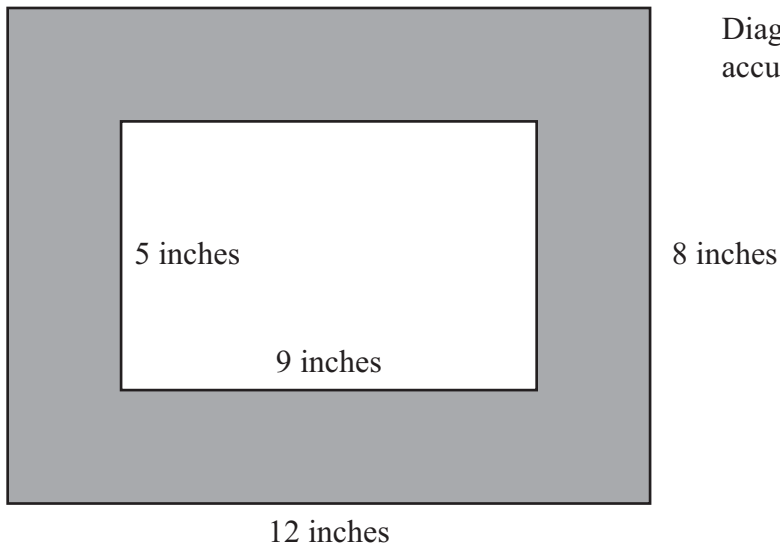


Diagram **NOT**  
accurately drawn

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.

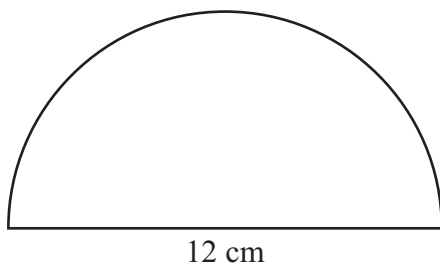


Diagram **NOT**  
accurately drawn

..... cm

**(Total for Question 15 is 3 marks)**

**TOTAL FOR SECTION A IS 50 MARKS**



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Surname

Other names

Centre Number

Candidate Number

**Edexcel Award**

**Proficiency in Number and Measure**

**Level 2**

**Section B (Non-Calculator)**

Thursday 10 May 2012 – Morning

**Time: 30 minutes**

Paper Reference

**ANM20/2B**

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

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 must not be used.**



### Information

- The total mark for this section is 30
- 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.

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**PEARSON**

**Section B**

**Answer ALL questions.**

**Write your answers in the spaces provided.**

**You must write down all stages in your working.**

**You must NOT use a calculator in this section.**

1 Work out  $34.56 + 4.5 + 123 - 82.79$

.....

**(Total for Question 1 is 2 marks)**

2 (a) Work out  $56 \times 24$

.....

**(3)**

(b) Work out  $2187 \div 9$

.....

**(2)**

**(Total for Question 2 is 5 marks)**



- 3 (a) Write these numbers in order of size.  
Start with the smallest number.

-2    +3    +2    -4    0

.....  
(1)

- (b) Work out  $-5 + 8$

.....  
(1)

- (c) Work out  $-3 - 7$

.....  
(1)

- (d) Work out  $-5 \times -4$

.....  
(1)

- (e) Work out  $-24 \div 6$

.....  
(1)

**(Total for Question 3 is 5 marks)**

- 4 Write £24 as a percentage of £80

..... %

**(Total for Question 4 is 2 marks)**



5 Work out an estimate for  $\frac{4.9 \times 78.5}{22.5}$

.....  
**(Total for Question 5 is 3 marks)**

6 Three cups of tea cost £3.60  
How much would five cups of tea cost?

£ .....

**(Total for Question 6 is 3 marks)**





7 (a) Work out  $3\frac{3}{4} + 1\frac{1}{2}$

Give your answer as a mixed fraction in its simplest form.

.....  
(3)

(b) Work out  $1\frac{5}{6} \times \frac{3}{5}$

Give your answer as a mixed fraction in its simplest form.

.....  
(3)

**(Total for Question 7 is 6 marks)**

8 Use 5 miles = 8 km to change 40 km into miles.

..... miles

**(Total for Question 8 is 2 marks)**



9 Write 43 cm as a fraction of 3 m.

.....  
(Total for Question 9 is 2 marks)

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**TOTAL FOR SECTION B IS 30 MARKS**  
**TOTAL FOR PAPER IS 80 MARKS**



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