

Write your name here					
Surname				Other names	
Pearson Edexcel		Centre Number		Candidate Number	
Level 1/Level 2 GCSE (9 - 1)		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
<h1 style="margin: 0;">Mathematics A03</h1> <h2 style="margin: 0;">Specimen papers set 1</h2> <h2 style="margin: 0;">Silver Test 1</h2>				 Grades 1-3	
Time: 30-45 minutes				Paper Reference 1MA1	
You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser.					Total Marks <div style="border: 1px solid black; height: 40px; width: 100%;"></div>

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 in questions marked with an asterisk (*).**
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must **show all your working out** with your **answer clearly identified** at the **end of your solution**.

*



Information

- This gold test is aimed at students targeting grades 1-3.
- This test has 11 questions. The total mark for this paper 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.

1. A shop sells pens at different prices.
The cheapest pens in the shop cost 27p each.

Lottie buys 18 pens from the shop.

(a) If Lottie buys 18 of the cheapest pens, how much does Lottie pay?

£.....
(1)

Lottie pays with a £10 note.

(b) How much change should Lottie get?

£.....
(1)

Instead of buying the cheapest pens, Lottie buys 18 of the more expensive pens.
She still pays with a £10 note.

(c) Should Lottie get more change or less change?

.....
.....
(1)

(Total for Question 1 is 3 marks)

2. Michelle and Wayne have saved a total of £458 for their holiday.
Wayne saved £72 more than Michelle.

(a) How much did they save without Wayne's extra £72?

£.....
(1)

(b) How much did Wayne save?

£.....
(1)

(Total for Question 2 is 2 marks)

3. Jayne writes down the following

$$3.4 \times 5.3 = 180.2$$

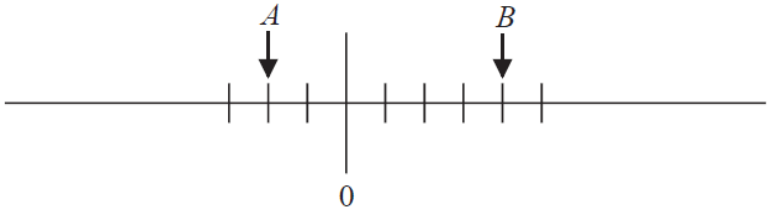
Estimate the answer to 3.4×5.3 .

Explain why Jayne's answer cannot be correct.

.....
.....

(Total for Question 3 is 1 mark)

4. The two numbers, A and B , are shown on a scale.



The difference between A and B is 48.

(a) Work out the value of one interval on the scale.

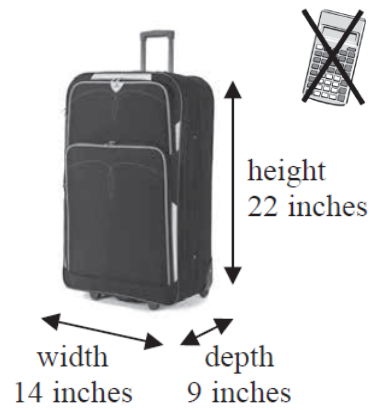
.....
(1)

(b) Work out the value of A and the value of B .

A =
 B =
(2)

(Total for Question 4 is 3 marks)

- *5.** An American airline has a maximum size for bags on its planes.
The diagram shows the maximum dimensions.



Chris has a bag.

It has
 height 50 cm
 width 40 cm
 depth 20 cm

1 inch = 2.54 cm

- (a) Convert the height of Chris’s bag to inches.

..... inches

- (b) Convert the width of Chris’s bag to inches.

..... inches

- (c) Convert the depth of Chris’s bag to inches.

..... inches

(2)

- (d) Can Chris take this bag on the plane? Explain your answer.

.....

(1)

(Total for Question 5 is 3 marks)

6. In a shop, the normal price of a coat is £65.
The shop has a sale.

In week 1 of the sale, the price of the coat is reduced by 20%

(a) Find the price of the coat in week 1 of the sale.

£.....

(1)

In week 2 of the sale, the price of the coat is reduced by a further £10.

(b) Find the price of the coat in week 2 of the sale.

£.....

(1)

Maria has £40.

(c) Does Maria have enough money to buy the coat in week 2 of the sale?

.....

(1)

(Total for Question 6 is 3 marks)

7. The length of a car is 3.6 metres.

(a) Convert 3.6 metres to centimetres.

..... cm

Karl makes a scale model of the car.
He uses a scale of 1 cm to 30 cm.

(b) Work out the length of the scale model of the car in centimetres.

..... cm

(Total for Question 7 is 2 marks)

8. Here are two numbers.

29 37

Nadia says both of these numbers can be written as the **sum** of two square numbers.

(a) Write down the first six square numbers.

.....
(1)

(b) Is Nadia correct?

If she is, write each of the numbers 29 and 37 as the sum of two square numbers.

.....
.....
(2)

(Total for Question 8 is 3 marks)

***9.** There are 500 passengers on a train.



$\frac{7}{20}$ of the passengers are men.

(a) How many passengers are men?

.....
(1)

40% of the passengers are women.

(b) How many passengers are women?

.....
(1)

The rest of the passengers are children.

(c) Work out the number of children on the train.

.....
(1)

(Total for Question 9 is 3 marks)

***10.** A shop sells milk in 1 pint bottles and in 2 pint bottles.



Each 1 pint bottle of milk costs 52p.
Each 2 pint bottle of milk costs 93p.

Martin has **no** milk.

He assumes that he uses, on average, $\frac{3}{4}$ of a pint of milk each day.

Martin wants to buy enough milk to last for 7 days.

- (a) How many pints of milk does Martin need to buy for 7 days?
Round your answer to the appropriate number of whole pints.

.....
(2)

- (b) Work out the smallest amount of money Martin needs to spend on milk.

£.....
(1)

Martin actually uses more than $\frac{3}{4}$ of a pint of milk each day.

- (c) Explain how this might affect the amount of money he needs to spend on milk.
Does your answer depend on how **much** more than $\frac{3}{4}$ of a pint Martin uses each day?

.....
.....
.....
.....
(1)

(Total for Question 10 is 4 marks)

11. Boxes of chocolates cost £3.69 each.
A shop has an offer.

Boxes of chocolates
3 for the price of 2

(a) How much is 3 boxes of chocolates in the offer?

£.....

Ali has £50
He is going to get as many boxes of chocolates as possible.

(b) How many lots of 3 boxes of chocolates can Ali buy?

.....
(1)

(c) How much money does Ali have left over?

£.....

(d) How many boxes of chocolates can Ali buy with the money he has left over?

.....
(1)

(e) How many boxes of chocolates can Ali get in total?

.....
(1)

(Total for Question 11 is 3 marks)

TOTAL FOR PAPER IS 30 MARKS

Question	Origin	Question	Origin
1	2F qu.5	7	2F qu.12
2	2F qu.6	8	3F qu.5
3	3F qu.8	9*	1F qu.18
4	3F qu.9	10*	1F qu.19
5*	1F qu.10	11	3F qu.19
6	2F qu.11		

Specimen papers set 1 problem solving:			Gold Test Grades 1-3	
Question	Working	Answer	Notes	
1 (a) (b) (c)	$27 \times 18 = 486$	5.14 "less change"	M1 A1 C1	for 1000 - "27 x 18" cao for "less change" oe
2 (a) (b)	$458 - 72 = 386$ $386 \div 2 = 193$	265	P1 A1	for start to the process
3		Statement	C1	for a full explanation
4 (a) (b)		-16, 32	P1 P1 A1	for $48 \div 6$ for a complete process to find either A or B
5 (a)-(c) (d)		No (supported)	P1 A1 C1	starts the process by converting one dimension converts at least one measurement conclusion eg No, since the 40 cm > 14 inches
6 (a) (b) (c)		for 'no' with supporting evidence	P1 P1 C1	for correct process to find price in Week 1, eg. $65 \times 0.8 (= 52)$ for process to find the price in week 2, eg. "52" - 10 (= 42) for 'no' with supporting evidence

Specimen papers set 1 problem solving:			Gold Test Grades 1-3
Question	Working	Answer	Notes
7 (a)-(b)		12	P1 for complete process including unit conversion, eg. $3.6 \times 100 \div 30$ A1 cao
8 (a) (b)		Yes with evidence	C1 for writing down at least two squares numbers P1 for adding square numbers A1 cao with supporting evidence
9 (a) (b) (c)		125	P1 for process to find 7/20 of 500 (=175) or $7/20 + 4/10$ (=3/4) P1 for process to find 40% of 500 (=200) or $\frac{1}{4} \times 500$ A1 cao
10 (a) (b) (c)		2.79 pay more	P1 begins to work with figures eg finding $7 \times \frac{3}{4}$ (=5.25) P1 works with integers eg 5.25 as 6 pints and 3×2 pints A1 cao C1 deduces he may have to pay more [if he uses more than 0.857 pints a day]
11 (a)-(b) (c)-(d) (e)	$3.69 \times 2 = 7.38$	19	P1 for 7.38 repeatedly added at least 6 times OR $50 \div 7.38$ P1 for $6 \times 7.38 + 3.69$ A1 19 boxes