


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> <h3 style="margin: 0;">Gold Test 1</h3>				 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.
She pays with a £10 note.

- (a) If Lottie buys 18 of the cheapest pens, how much change should Lottie get?

£.....
(2)

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

- (b) How does this affect the amount of change she should get?

.....
.....
(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.

How much did Wayne save?

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

3. Jayne writes down the following

$$3.4 \times 5.3 = 180.2$$

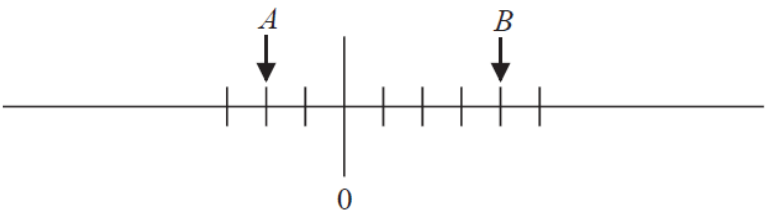
Without doing the exact calculation, explain why Jayne’s answer cannot be correct.

.....

.....

(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.

Work out the value of *A* and the value of *B*.

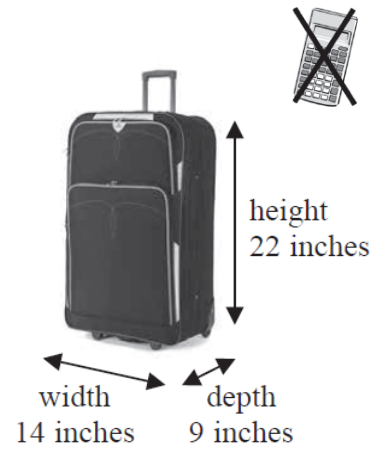
A =.....

B =.....

(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

Can Chris take this bag on the plane?
You must show your working.

(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%

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

Maria has £40.

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

You must show how you get your answer.

(Total for Question 6 is 3 marks)

7. The length of a car is 3.6 metres.

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

Work out the length of the scale model of the car.
Give your answer 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.

Is Nadia correct?

You must show how you get your answer.

(Total for Question 8 is 3 marks)

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



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

40% of the passengers are women.

The rest of the passengers are children.

Work out the number of children on the train.

.....
(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) Work out the smallest amount of money Martin needs to spend on milk.
You must show all your working.

£.....
(3)

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

- (b) Explain how this might affect the amount of money he needs to spend on milk.

.....
.....
.....
.....
(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

Ali has £50

He is going to get as many boxes of chocolates as possible.

How many boxes of chocolates can Ali get?

.....
(Total for Question 11 is 3 marks)

TOTAL FOR PAPER IS 30 MARKS

BLANK PAGE

Question	Origin	Question	Origin
1	2F qu.5	8	2F qu.12
3	2F qu.6	9	3F qu.5
4	3F qu.8	11*	1F qu.18
5	3F qu.9	12*	1F qu.19
6*	1F qu.10	13	3F qu.19
7	2F qu.11		

Specimen papers set 1 problem solving:			Gold Test Grades 1-3	
Question	Working	Answer	Notes	
1 a	$27 \times 18 = 486$	5.14	M1	for 1000 - "27 × 18"
b		"less change"	A1	cao
			C1	for "less change" oe
2	$458 - 72 = 386$ $386 \div 2 = 193$	265	P1	for start to the process, eg. $458 - 72$ or $458 \div 2 (= 229)$ and $72 \div 2 (= 36)$
			A1	
3		Statement	C1	for a full explanation
4		-16, 32	P1	for $48 \div 6$
			P1	for a complete process to find either A or B
			A1	
5		No (supported)	P1	starts the process by converting one dimension
			A1	converts at least one measurement
			C1	conclusion eg No, since the 40 cm > 14 inches
6		for 'no' with supporting evidence	P1	for correct process to find price in Week 1, eg. $65 \times 0.8 (= 52)$
			P1	for process to find the price in week 2, eg. "52" - 10 (= 42)
			C1	for 'no' with supporting evidence

Specimen papers set 1 problem solving:			Gold Test Grades 1-3
Question	Working	Answer	Notes
7		12	P1 for complete process including unit conversion, eg. $3.6 \times 100 \div 30$ A1 cao
8		Yes with evidence	C1 for writing down at least two squares numbers P1 for adding square numbers A1 cao with supporting evidence
9		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)		2.79	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
(b)		pay more	C1 deduces he may have to pay more [if he uses more than 0.857 pints a day]
11	$3.69 \times 2 = 7.38$	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