"BETWEEN PAPERS" PRACTICE thanks to

1 of 1 (FξH)

Odansmilh

SUMMER 2018

SOLUTIONS

NOT A "BEST" GUESS PAPER.

NEITHER IS IT A "PREDICTION" ... ONLY THE EXAMINERS KNOW WHAT IS GOING TO COME UP! FACT!
YOU ALSO NEED TO REMEMBER THAT JUST BECAUSE A TOPIC CAME UP ON PAPER 1 OR PAPER 2 IT MAY
STILL COME UP ON PAPER 3 ...

WE KNOW HOW IMPORTANT IT IS TO PRACTICE, PRACTICE, PRACTICE SO WE'VE COLLATED A LOAD OF QUESTIONS THAT WEREN'T EXAMINED IN THE AQA 9-1 GCSE MATHS PAPER 1 OR PAPER 2 BUT WE CANNOT GUARANTEE HOW A TOPIC WILL BE EXAMINED IN THE NEXT PAPERS ...

ENJOY! MEL & SEAGER Q1. Which statement is true? Circle your answer.

Q2. Factorise
$$x^2 - y^2$$
 (20-4y) (20-4y) Outher continuous Squares [1]

Q3. Adam and six other men ran a race.

The times, in seconds, of the six other men are shown.

9.75 9.79

9.80

9.88

9.94

9.98

The mean time for **all seven** men was 9.83 seconds.

Did Adam win the race?

Number 6 7

You must show your working.

20000
$$= 68.81 - 59.14$$

= 9.67

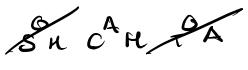
Q4. (a) Factorise fully 9a² - 6a

$$3a(3a-2)$$

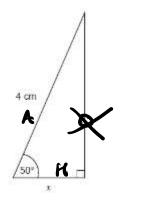
(b) Solve $x^2 - 12x + 20 = 0$

$$(x-10)(x-2)=0$$
 $x=10$ $x=2$

Q5. Work out the value of x. Give your answer to 1 decimal place.



 $\cos 50 = \frac{2}{4}$ $2c = 4 \times \cos 50$ [2]



Q6. The pressure at sea level is 101 325 Pascals. Any rise of 1 km above sea level decreases the pressure by 14% For example,

at 3 km above sea level the pressure is 14% less than at 2 km

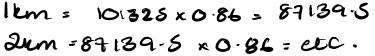
100% sealered

[3]

Not drawn accurately

Work out the pressure at 4 km above sea level.

Give your answer to 2 significant figures.



GR 101325 x 0.864 = 55425.6 _ 55,000 ascals [4

Not a predicted paper ... I'm a practice paper!

Q7. In 1999 the minimum wage for adults was £3.60 per hour.

Work out the percentage increase in the minimum wage.

$$\frac{2.71}{3.60} \times 160$$

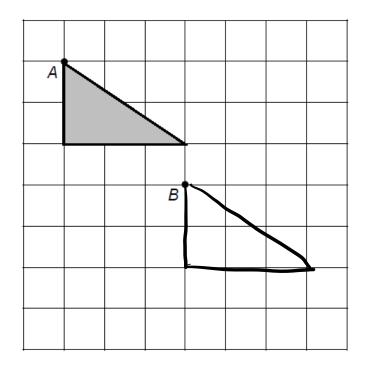
Q8. Expand and simplify
$$(y - 5)(y - 2)$$

In 2013 it was £6.31 per hour.

Q8. Expand and simplify
$$(y-5)(y-2)$$
 $y^2-2y-5y+10$

[2]

Q9. Translate the triangle so that point A moves to point B.



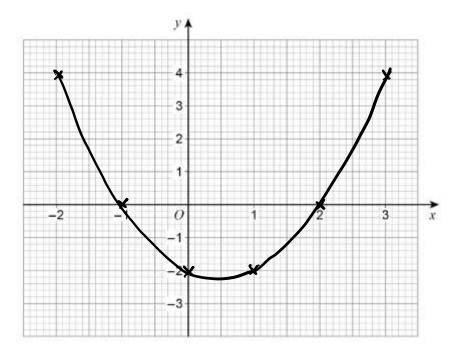
[1]

Q10. (a) Complete the table of values for $y = x^2 - x - 2$

x	-2	-1	0	1	2	3
у	4	6	-2	-2	O	4

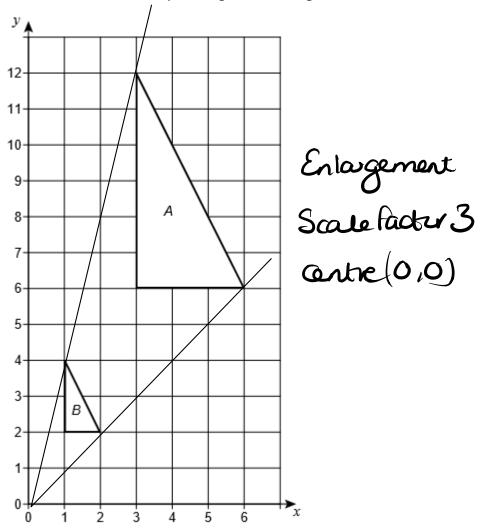
[2 marks]

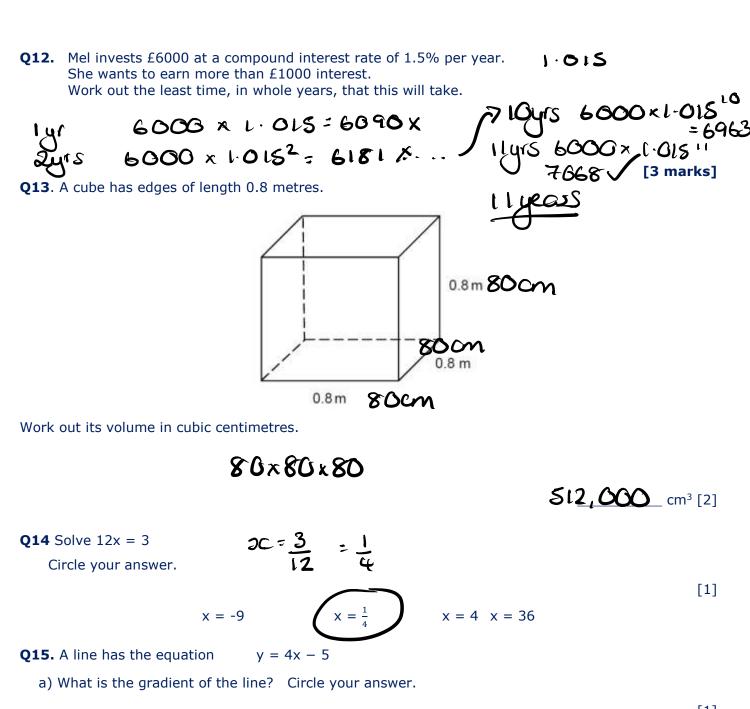
(b) Draw the graph of $y = x^2 - x - 2$ for values of x from -2 to 3



[2 marks]

Q11. Describe fully the single transformation that maps triangle A to triangle B.





 $-5 \qquad -4 \qquad \boxed{4} \qquad 5$

b) What is the y-intercept of the line? Circle your answer.

Q16. Make t the subject of the formula w = 3t + 11

$$\omega - 11 = 3t$$

$$t = \omega - 11$$

$$3$$
[2]

Q17. Toilet rolls come in packs of 4 and 9



Our Brand

9

Toilet rolls

3-99+9 = £0-448

£1.89

£3.99

Which pack is better value?

You must show your working.

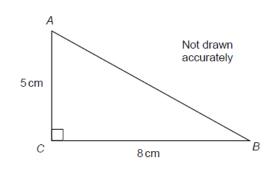


Q18. Write 98 as a product of its prime factors

[3]

[1]

Q19. How long is side AB?



Tick a box.

Between 5 cm and 8 cm 8 cm

Between 8 cm and 13 cm

More than 13 cm

[1]

Q20. A drink is mixed in the ratio

lemonade : orange : cranberry = 6 : 3 : 2

6+3+2 = 11

 $\frac{6}{11}$

52+82

25+64 = 89

What fraction is orange?

Circle your answer.

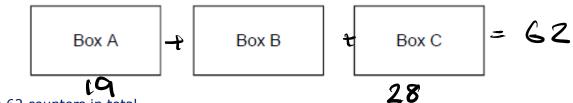
3



[1]

Not a predicted paper ... I'm a practice paper!

Q21. Three boxes contain counters.



There are 62 counters in total.

The total number of counters in box A and box B is 34

The difference between the number of counters in box A and box C is 9

Work out the number of counters in each box.

A
$$+ 6 + C = 62$$

A $+ 6 = 34$

Box A $= 62$

C = $= 28$

C - A = $= 28 - A = 9$

A = $= 19$