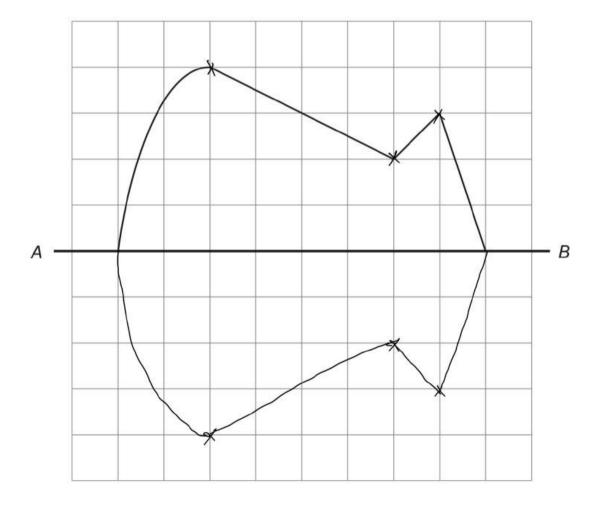


3



Examiner only



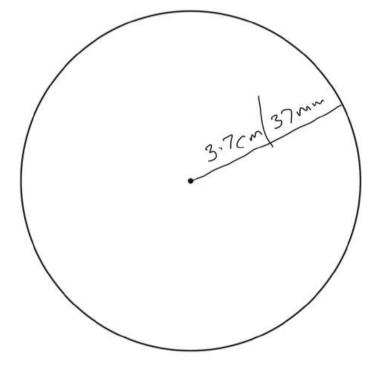
3300U101 03

(b) Measure the length of the radius of this circle using metric units.

○ ? 72% -

(b) Measure the length of the radius of this circle using metric units. State the units you are using.







4

Examiner only

2. (a) Huw has 19 coins in his pocket.

13 of these coins are 10p coins and the rest are 5p coins.

Huw chooses one coin at random from his pocket.

Circle the best expression from those given below to describe the chance that Huw chooses a 5p coin. [1]

719-13=6

impossible



an even chance

likely

certain

(b) Catrin has 10 pieces of fruit in her bag. She has 4 oranges and 6 apples.

Catrin chooses one piece of fruit at random from her bag.

Circle the best expression from those given below to describe the chance that Catrin chooses a banana from her bag. [1]

impossible

unlikely

an even chance

likely

certain

3. (a) Kate thought of a number.

She multiplied her number by 9 and got the answer 54.

What number did Kate think of?

[1]

let kate's number = x

[1]

3. (a) Kate thought of a number. She multiplied her number by 9 and got the answer 54.

What number did Kate think of?

$$\frac{3C\times 9}{9} = \frac{54}{9} \quad x = 6$$

3. (a) Kate thought of a number.

She multiplied her number by 9 and got the answer 54.

What number did Kate think of?

[1]

(b) Write a positive whole number in each empty box to make this statement true. [1]



×



+



2

8

16

 $1 \times 8 + 13 = 2$

1x8 2x8

 $2 \times 8 + 5 = 21$

21-8=13 21-16=5

4. In this question, you will be assessed on the quality of your organisation, communication and accuracy in writing.

Examiner only

A square is made using four rods of equal length joined end to end.

The perimeter of this square is 72 cm.

Three of these rods are now joined end to end to make an equilateral triangle.

What is the perimeter of this equilateral triangle?

You must show all your working.

[3 + 2 OCW]

1 rod = 72 - 4 = 18 cm

3 rods = 18x3 = 54cm

2'/8 Perimeter of equilateral triangle = 54cm

X 3 5 4

5. Solve the following equations.

5. Solve the following equations.

(a)
$$20x = 120$$

[1]

$$20x = 120$$

$$20 \times 30 \times 30 = 120$$

$$20 \times 10$$

(b)
$$40 - y = 25$$

[1]

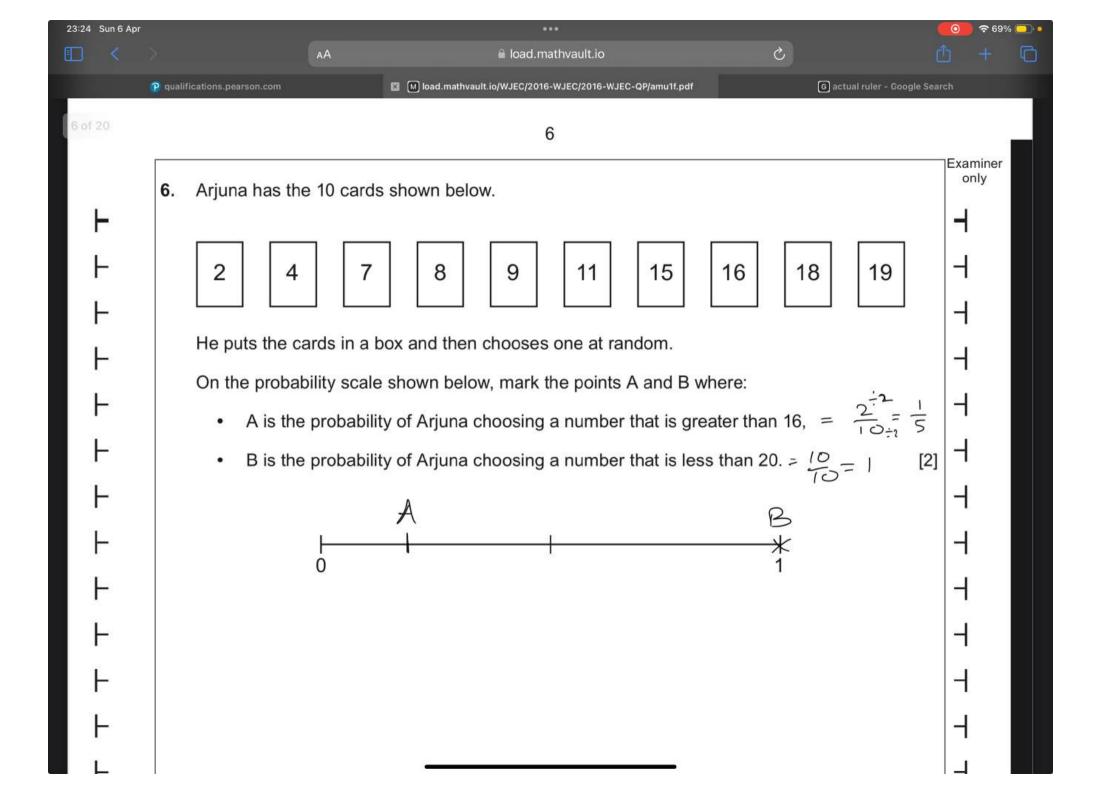


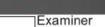


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(3300U10-1)

Turn over.





- 7. There are 204 students at Ysgol Bryn.
 The caretaker always puts 15 chairs in each row in the school hall.
 - How many complete rows of chairs must the caretaker put out so that each student can sit on a chair?
 - · How many empty chairs will there be?

[5]

Number of 10WS required = 204 - 15 068 204:3

 $\frac{1204}{13.6}$

5 6 8.300

Number of Complete rows required = 14

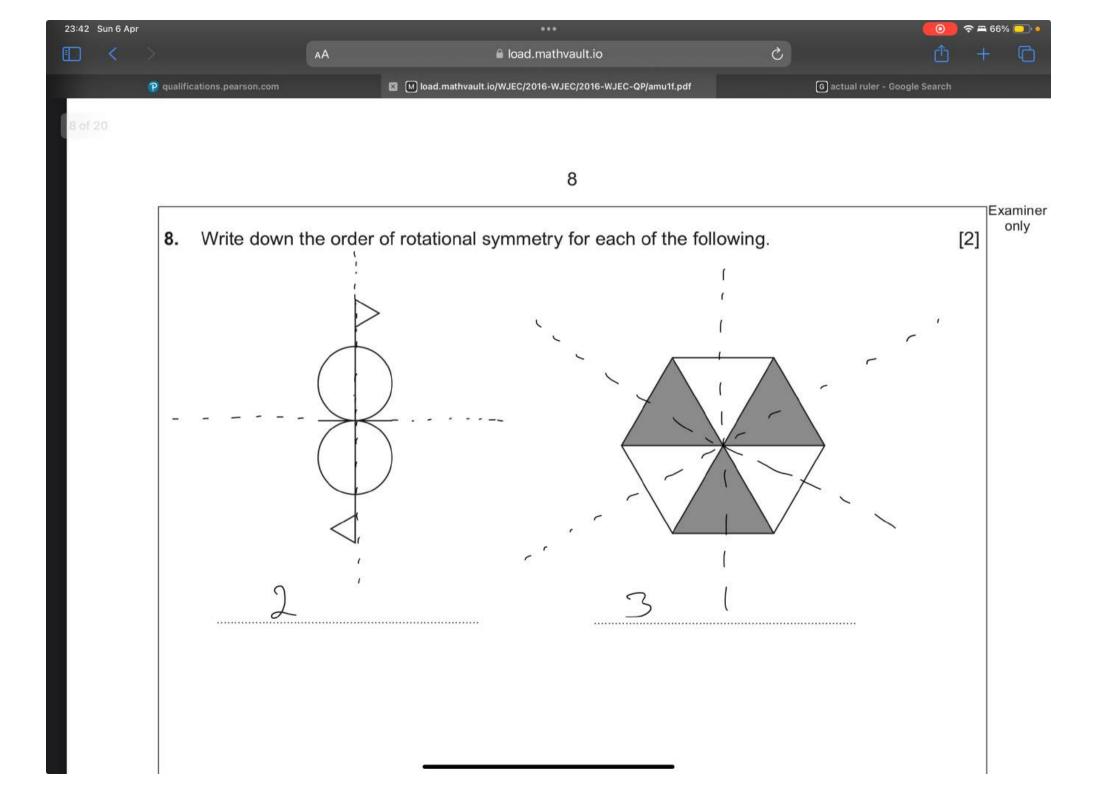
Total Chairs = 14 x 15 = 210 chairs

 \times 15 Empty Chairs = 210 - 204 = 6 empty Chair

1+1 +

Number of complete rows of chairs = 14

Number of empty chairs =

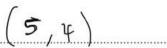






9. (a) The point A is plotted on the grid below.

Write down the coordinates of A.



only

Examiner

(b) Plot the points B(5, -2) and C(-3, -2) on the grid.

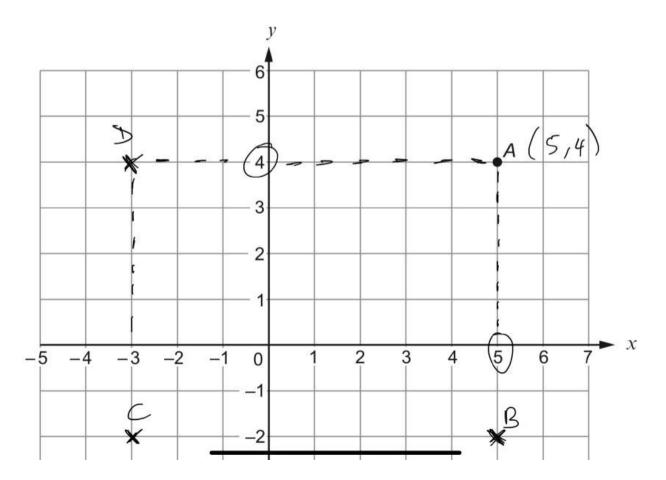
[2]

[1]

(c) ABCD is a rectangle.Write down the coordinates of D.

(-3, 4)

[1]

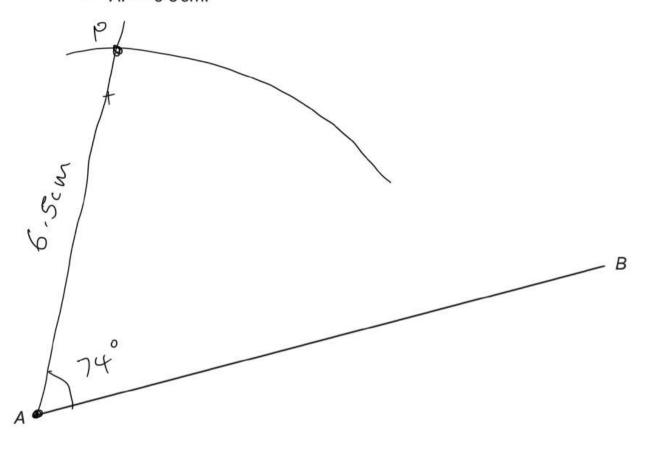


3300U10 09



- 10. On the diagram, mark the point P with a cross so that
 - BAP = 74°
 AP = 6.5 cm.

[2]



11. Find the size of angle x.



11. Find the size of angle x.

[2]

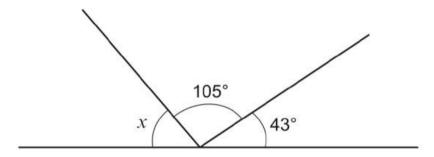


Diagram not drawn to scale

Angles on a straight line add up to 180°

x + 105 + 43 = 180

2C + 148 = 180 -148 - 148 032

 $\gamma = 3^2$

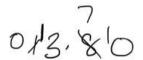
12. Calculate each of the following.

(a)
$$0.4 \times 0.7$$

 $7 \times 4 = .28$

[1]

0.28



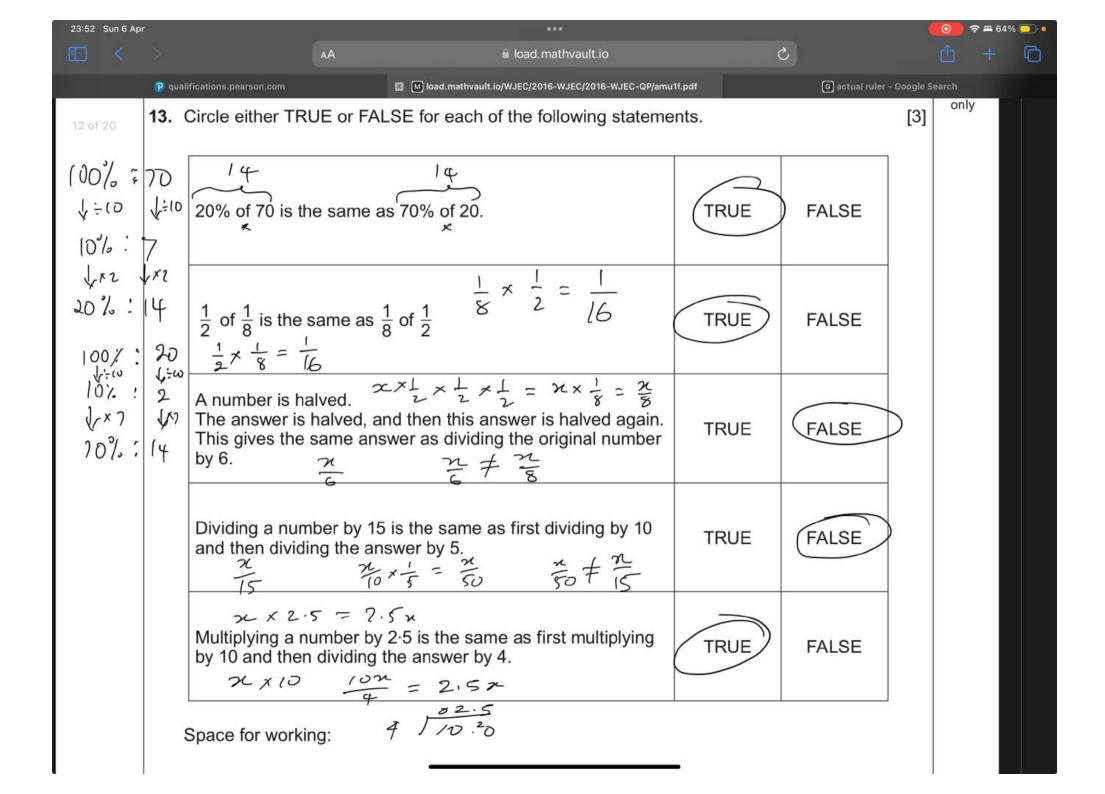
[1]

-07·45

6,27

(d)
$$\frac{9}{10} - \frac{3}{5}$$

$$\frac{9}{10} - \frac{3x^2}{5x^2} = \frac{9}{10} - \frac{6}{10} =$$



Examiner only

14. A shop has 31 plant pots.

Some are blue, some are yellow and the rest are red.

There are five more blue pots than yellow pots.

There are four times as many blue pots as there are red pots.

Calculate how many pots there are of each colour.

[3]

Nº f blue 1895 = 6 Nº g red 18ts = V Nº f gellow pots = y b = y + 5 b = 4xr b + r + y = 3/

Write down the next two numbers in the following sequence. 15. [2]

> 33 26 12

ow Red

15. (a) Write down the next two numbers in the following sequence.

[2]

(b) Solve the equation
$$13y - 5 = 9y + 27$$
. [3]

45-5=21 45 +5

 $\frac{4y}{4} = \frac{32}{4}$ 4 = 2

y = 8

16. Three **red** cards have the following numbers written on them.

3

6

9

Four green cards have the following numbers written on them.

1

2

3

4

In a game, the cards are turned face down.

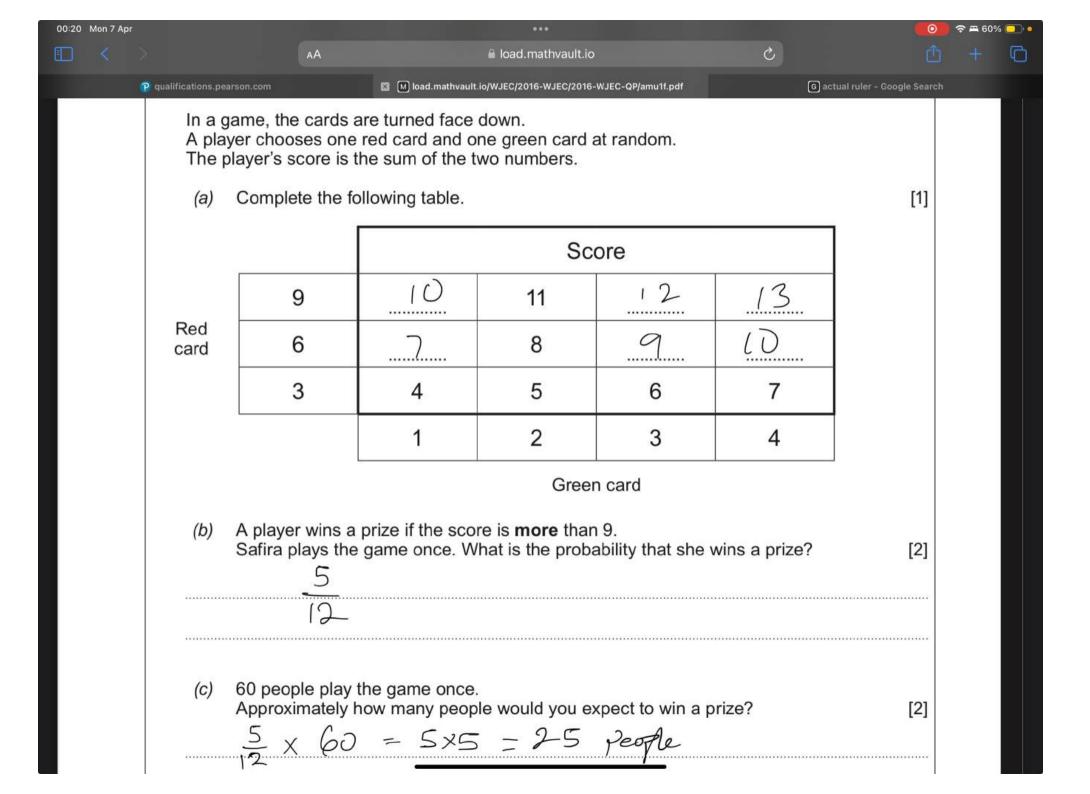
A player chooses one red card and one green card at random.

The player's score is the sum of the two numbers.

(a) Complete the following table.

Red card [1]

	Score			
9	01	11	12	13
6	7	8	9	10
3	4	5	6	7
-	1	2	3	4



17. A right-angled triangle BCD is joined to a rectangle ABDE, as shown below.

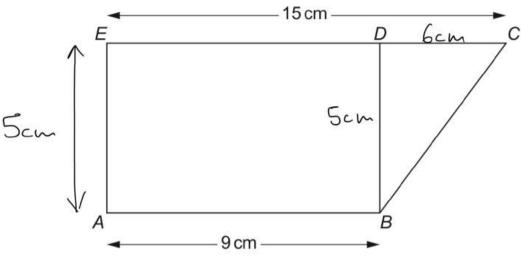


Diagram not drawn to scale

The area of the rectangle is 45 cm².

Calculate the area of the right-angled triangle.

You must show your working.

[5]

A rea
$$g = \frac{1}{2} \times b^{\alpha}$$
Triangle

Examiner only

18. Two types of number are added or multiplied together.
Complete the table below to show whether the answer will be odd or even.
One answer has been filled in for you.

[3]

	Calculation:	Answer will be:	
	even number + even number	even	
2+1=3	even number + odd number	odd	
1+1=2	odd number + odd number	even	
2x2=4	even number × even number	even	
2x2=4 2x1=2	even number × odd number	even	
1×1=1	odd number × odd number	o dd	

17 of 20

19. Write down five numbers that satisfy all of the following conditions:

Examiner only

[3]

- They are all between 1 and 9 inclusive.
- They have a median value of 6.
- They have a range of 7.
- Their mean is 5.

1 4 6 6 8

Sum = man 25-15=10

-> or Sum = 5×5 = 25 G74=10 frequency numbers Sum = frequency x orean



END OF PAPER