



ST NICHOLAS COLLEGE  
HALF YEARLY PRIMARY EXAMINATIONS  
February 2016

YEAR 6

MATHEMATICS

TIME: 1h 15 min

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Total Mark

80

1. Work out.

a) $324 + 92 =$ <input type="text"/>	b) $912 - 234 =$ <input type="text"/>
c) $418 \times 7 =$ <input type="text"/>	d) $424 \div 8 =$ <input type="text"/>

2a) Write these lengths in order, starting with the **shortest**.

$\frac{3}{4}m$	7.5cm	20cm	20mm
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shortest			longest

2b) Circle the numbers that give 900 when rounded to the nearest 100.

820	960
890	910

3. Look at these number cards.

1	2	3	4	5	6	7	8	9
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Find:

a) the largest 3-digit number

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b) the smallest 3-digit number

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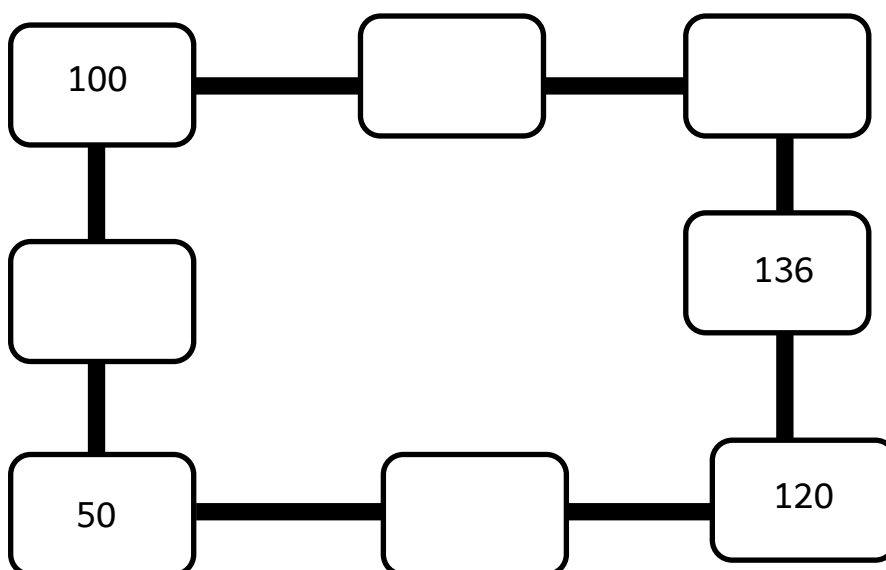
c) a multiple of 5 and 7

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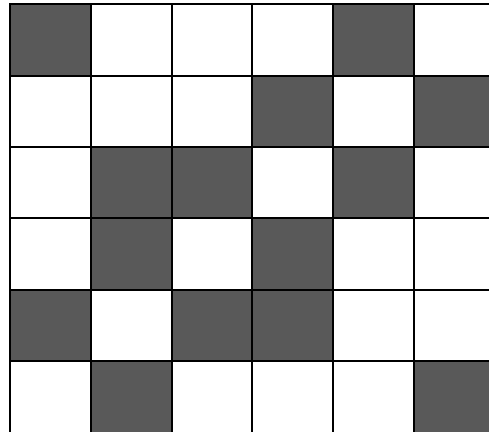
d) a factor of 24 and 48

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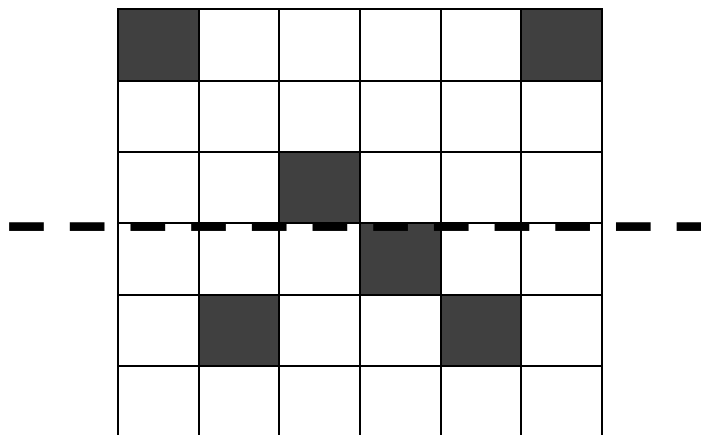
4. Write numbers in each box to make each line **add up to 350**.



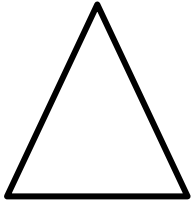
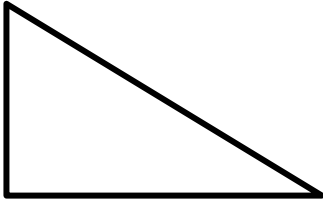
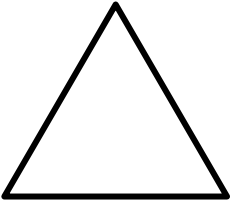
5a) On the grid below, use a ruler to draw a line of symmetry.



5b) Look at the diagram below. Shade the squares needed to complete the reflection in the mirror line.



5c) How many lines of symmetry in these shapes?

		
(i)	(ii)	(iii)

6. Five children each write a multiplication.

Rebecca $100 \times 400$	Julia $9 \times 42$	Lorry $3 \times 65$	Sue $4 \times 122$	Maria $7 \times 50$
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Write the name of the child whose multiplication matches the following statements.

	Name of Child
i) My multiplication gives an odd answer.	
ii) $14 \times 25$ gives the same answer to my multiplication.	
iii) 400 is an estimation to my multiplication.	
iv) My multiplication gives a 5-digit answer.	
v) When rounded to the nearest 100, my answer is 500.	

7. Tickets are sold for a performance of a play at the local theatre. The theatre is made up of **24 rows**. Each row has **43 seats**.



a) How many people can be seated at the theatre?

_____ people
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b) All tickets are sold for the afternoon performance. The prices for the tickets are shown in the table below. Find the **total amount** collected from the sale of all tickets.

<b>Prices</b>		
<b>Gold area</b>	Row 1 to Row 12	<b>€10</b>
<b>Silver area</b>	Row 13 to Row 24	<b>€6</b>

€ _____
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8. This is an **incomplete calendar** for the month of **February 2016**.

**February 2016**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27

- a) Complete the calendar above for the month of February 2016.
- b) Jordan goes for swimming lessons on **Mondays and Thursdays**.  
In February he went \_\_\_\_\_ times.
- c) There are ( 3, 4, 5 ) **Sundays** and ( 3, 4, 5 ) **Mondays** in February 2016.
- d) Jordan's birthday falls on the last Sunday of the month.  
Nick's birthday is 5 days later.  
**Nick's birthday** falls on the (4th, 5th, 26th) of (February, March, April).
- e) Next year, **February 2017** will have \_\_\_\_\_ days.

9. Amy has these coins in her purse.

				
	2c	5c	20c	€1
Number of Coins	5	8	10	4

a) Work out the total amount of money that Amy has.

€ ____ . ____
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b) Now, Amy wants to buy a book costing €12.55. How much more money does she need?

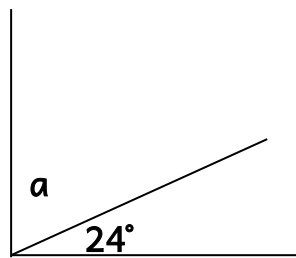
€ ____ . ____
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c) Amy's father gives her €1.25 pocket money every week. How many **weeks** does she wait to buy the book?

_____ weeks
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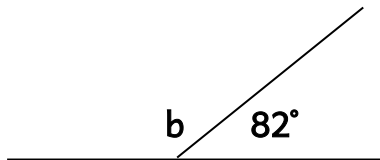
10a. Find the missing angles.

i)

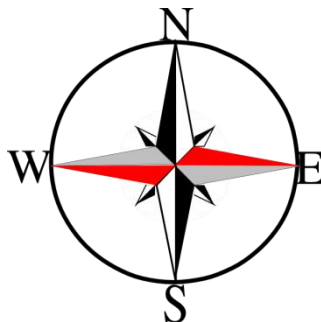


$a =$   °

ii)



$b =$   °



b. Tom is facing East. He turns **3 right angles anti-clockwise**.

i) He is now facing \_\_\_\_\_ .

ii) Tom is facing SE. He turns clockwise. He is now facing West.

Tom turns \_\_\_\_\_ right angles.

Tom turns \_\_\_\_\_ degrees.



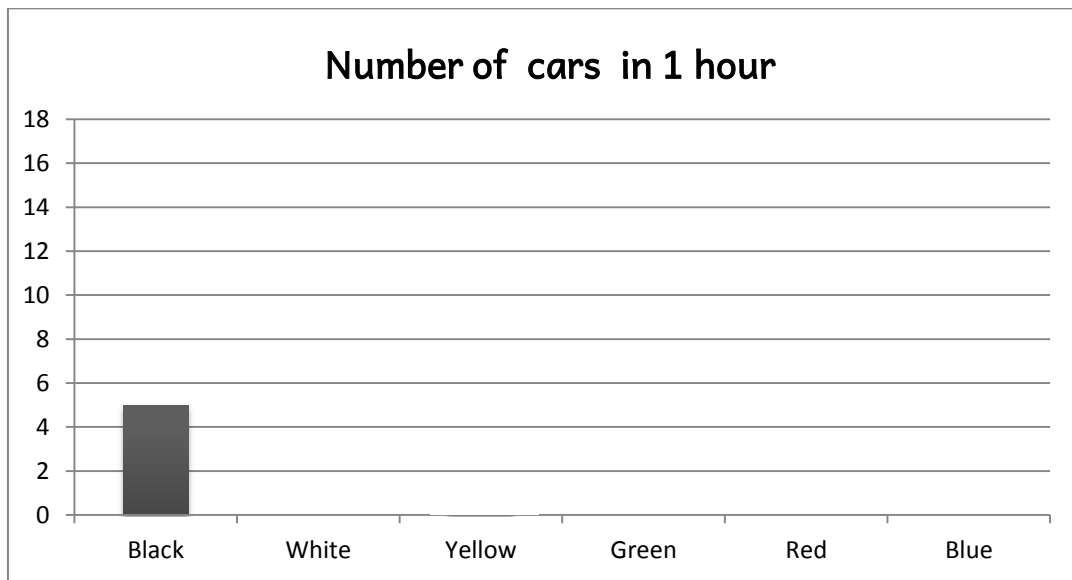
11. Giselle spends an hour watching the cars going past her house. She sees 52 cars and writes the results in the table below.

Colour of car	Number of cars
Black	5
White	8 more than black cars
Yellow	0
Green	double the number of black cars
Red	2 less than green cars
Blue	the rest

a) Fill in the missing numbers in the table below.

Colour of car	Black	White	Yellow	Green	Red	Blue
Number of cars	5		0			

b) Fill in the graph using the table above.



c) What is the fraction of **blue** cars? Give your answer in its **lowest terms**.


12. On Sundays Karen walks:

200m between 6:45am and 8:00am

540m between 8:00am and 11:00am

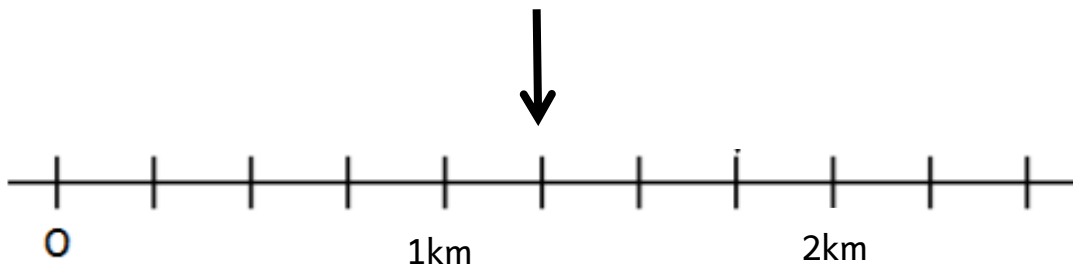
440m between 11:00am and 12:15pm.



a) Karen walks \_\_\_\_\_ km from 6:45am to 12:15pm.

b) The arrow on the scale shows the distance Isaac walks from 6:45am to 12:15pm.

How many **metres** does Isaac walk?

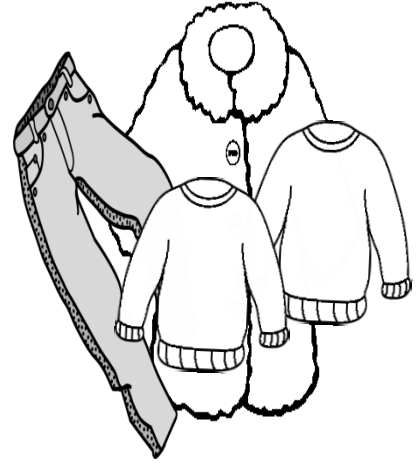


Isaac walks \_\_\_\_\_ m

c) Fill in the blanks with the correct answer.

(i) Karen and Isaac walk a total distance of \_\_\_\_\_ km in  
\_\_\_\_\_ hours .

13. Anna and Jessica go shopping for clothes.  
Anna gets **€2·30 change** from €60.  
Jessica gets **€3·45 change** from €90.



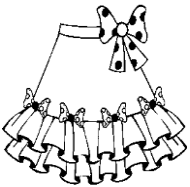
- a) How much **does** Anna spend?

€ \_\_\_\_ : \_\_\_\_

- b) Anna buys **2 sweaters** and a **pair of trousers**. The **2 sweaters** cost the **same amount**. The **trousers** cost **€27·70**.  
Work out the cost of **one sweater**.

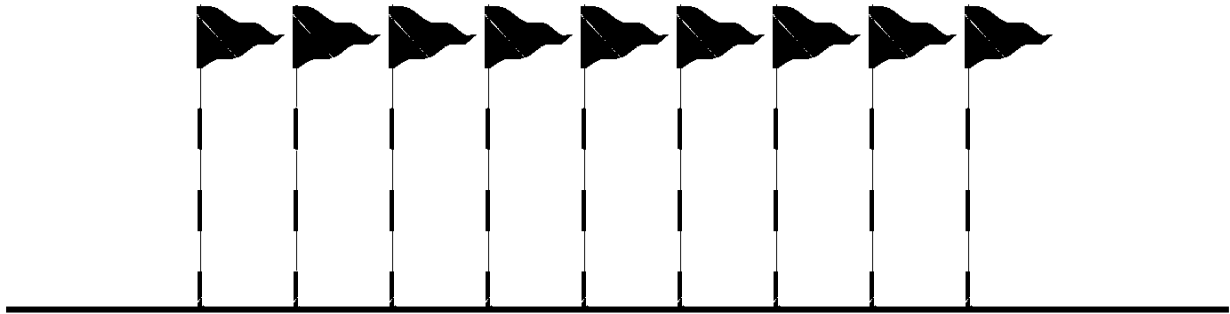
€ \_\_\_\_ : \_\_\_\_

- c) Jessica buys **a sweater, a skirt and a coat**. The **coat** costs **€45·50**.  
Work out the cost of the **skirt**.



€ \_\_\_\_ : \_\_\_\_

14. Nine flag posts are placed at equal lengths along a road.



The distance between the 3rd and the 8th lamp post is 45m.

a) Work out the distance between each flag post.

_____ m
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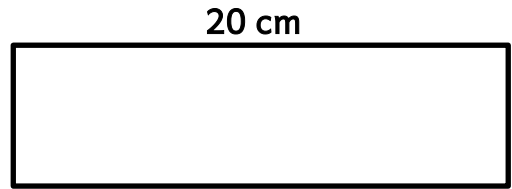
b) What is the distance between the 1st and the 9th flag post?

_____ m
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c) How many flag posts are needed to cover a distance of 126m?

_____ flag posts
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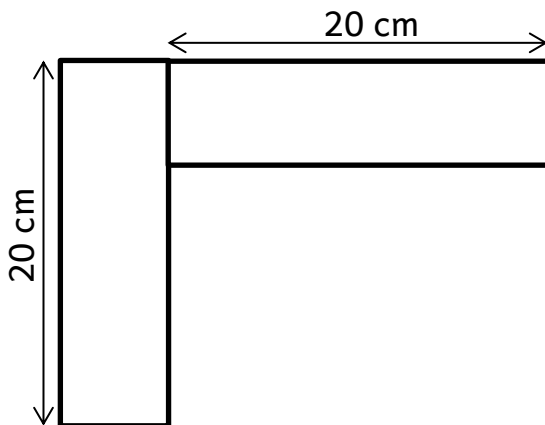
15. The **length** of a rectangle is 20 cm.



a) The **breadth** is  $\frac{1}{5}$  of its length. What is breadth of the rectangle?

\_\_\_\_\_ cm

b) Two such rectangles are joined together to form a new shape.  
Find the **area** of the new shape.



\_\_\_\_\_ cm<sup>2</sup>

c) Find the **perimeter** of the new shape.

















\_\_\_\_\_ cm

16. Look at the table below.

Each shape stands for a number.

The numbers on the right are the **totals** of the numbers in each row.

The numbers at the bottom are the **totals** of each column.

				= 30
				= 23
				= 21
				=
=	=	=	= 20	

a) Work out and write in the table above, the value of the remaining totals.

b) Work out the value of each shape.

$$\triangle = \underline{\quad}$$

$$\square = \underline{\quad}$$

$$\star = \underline{\quad}$$

$$\bigcirc = \underline{\quad}$$

END OF PAPER

## Marking Scheme

Nos.	1 - 4	4 × 4 marks	= 16 marks
	5 - 12	8 × 5 marks	= 40 marks
	13 - 16	4 × 6 marks	= 24 marks

**TOTAL = 80 marks**