



ST NICHOLAS COLLEGE
HALF YEARLY PRIMARY EXAMINATIONS
February 2017

YEAR 6

MATHEMATICS WRITTEN PAPER

TIME: 1 h 15 min

Name: _____

Class _____

Total Mark

80

1. Work out.

a) $524 + 912 =$ <input type="text"/>	b) $1324 - 618 =$ <input type="text"/>
c) $316 \times 6 =$ <input type="text"/>	d) $889 \div 7 =$ <input type="text"/>

2. Underline the most suitable measurement for each.

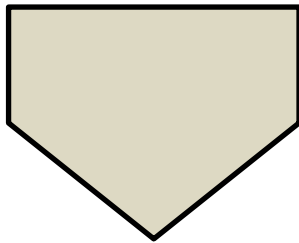
The length of a wooden bench	120mm	120cm	120m
The capacity of a small bottle of water	0.5 l	2 l	5000 ml
The length of a pencil	1.5cm	1.5m	15cm
The weight of 5 apples	105g	1.05kg	5kg

3a. Put a tick near the **correct statements**. There can be **more than one correct statement** for each shape.

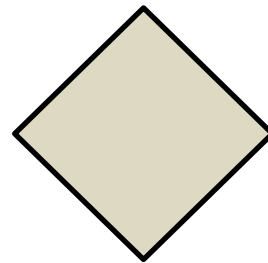
An Equilateral Triangle	
3 equal sides	<input type="checkbox"/>
all angles are equal	<input type="checkbox"/>
no lines of symmetry	<input type="checkbox"/>

An Isosceles Triangle	
no equal sides	<input type="checkbox"/>
2 equal angles	<input type="checkbox"/>
1 line of symmetry	<input type="checkbox"/>

b. For each shape, write how many **right angles** it has.



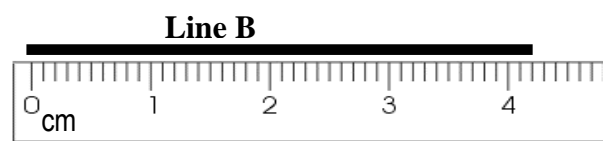
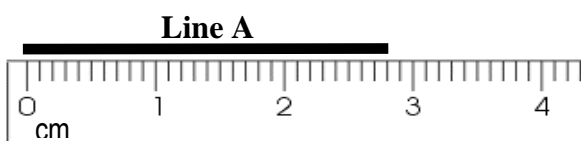
	right angles
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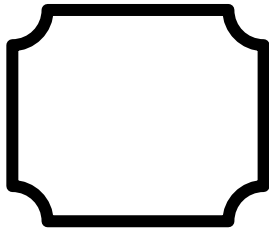
	right angles
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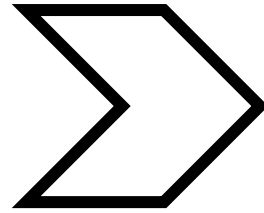
4. Look at Line A and Line B.

- The length of line A is _____ cm.
- The length of line B is _____ cm.
- The **total length** of line A and Line B is _____ mm.
- Line B is _____ cm **longer** than Line A.

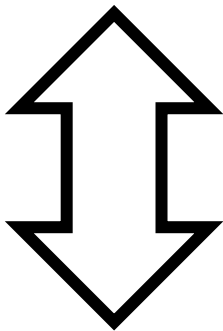


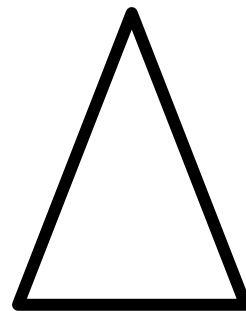
5a. Tick the shapes with only 2 lines of symmetry.



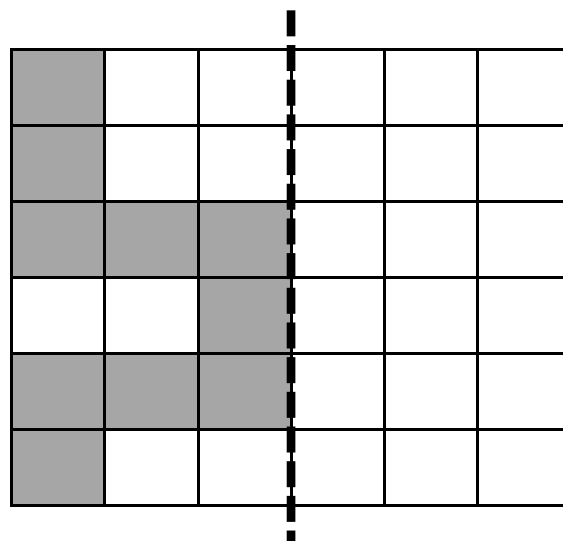








b. Shade the squares needed to complete the reflection in the mirror line.



6. Use each number card once to make every statement correct.

24

36

101

46

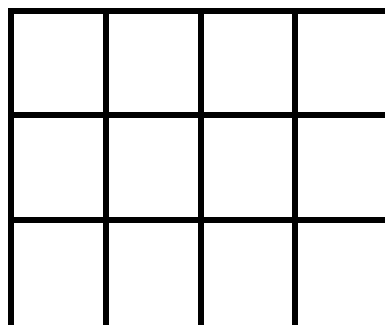
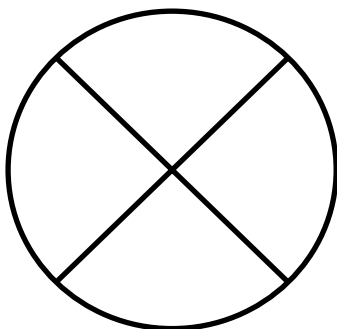
21

a multiple of 3	
an even number smaller than 30	
a common multiple of 3 and 7	
a 3-digit number	
When rounded to the nearest ten, the answer is 50.	

7a. Fill in the missing numbers.

Number	Round to the nearest		
	100	10	Whole number
315.05			

b. Shade $\frac{1}{4}$ of each shape.



8. A stationery sells cards in **packs of 7** and **packs of 8**. Sam buys a few **packs of 8**. Altogether he has **192 cards**.

a. How many **packs of 8** does he buy?

_____ packs

b. **Mark** buys **14 packs of 7**. How many cards do Sam and Mark have **altogether**.

_____ cards

c. The boys give **1 pack each** to their friend Isaac. What fraction of the whole amount of cards does Isaac have?

$$\frac{\square}{\square}$$

9. This is the menu of Reno's Snack Bar.
- a. Roger buys a tuna pie, a salad and a drink.
What is the total cost of these 3 items?

Item	€
<i>Tuna pie</i>	1.25
<i>Pizza</i>	1.35
<i>Chips</i>	0.75
<i>Salad</i>	1.50
<i>Drink</i>	0.80

€ _____ . _____

- b. Philip wants to buy a pizza, chips, a salad and a drink. What change will he get if he pays with a €5 note?

€ _____ . _____

- c. Philip wants to return home by bus but he does not have enough money to pay the bus fare, which costs €1.35.
Which item must he remove from his order to have the exact amount for the food and the bus fare?
Tick the correct box.

Pizza	<input type="checkbox"/>	Salad	<input type="checkbox"/>
Chips	<input type="checkbox"/>	Drink	<input type="checkbox"/>

10. In a carpark there are **6 levels**. Each level holds 185 cars.

a. How many **parking spaces** are there in the carpark?



_____ spaces

By 9:00 am, **495 cars** enter the carpark. By 11:00 am, **110 cars** leave.

b. How many **empty spaces** are there at 11:00 am?

_____ spaces

The carpark opens at **07:55** and closes at **quarter to six** in the evening.

c. Fill in:

The carpark opens for _____ **hours** _____ **minutes**.

11. Sue saves up for a new skateboard that costs €40. The table shows how much money she saves each week.

Week	1	2	3	4	5	6	7	8	9	10
Money saved	€5.10	€4.50	€2.25	€4.15	€3.50	€4.10	€6.25	€2.15	€3.75	€5.50

- a. How much does she save in the first 3 weeks?

€ _____ . _____

- b. During which week does Sue reach half the amount she needs for the skateboard?

Week _____

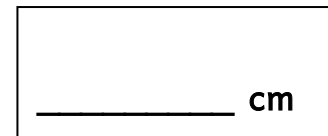
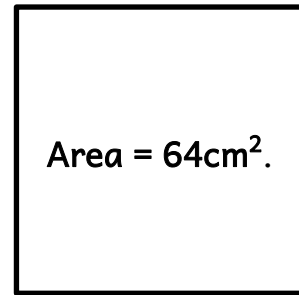
- c. If Sue saves an extra €1 each week, starting from Week 1, in which week will she reach her target of €40.



Week _____

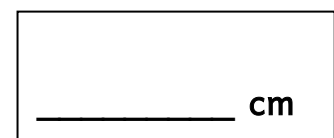
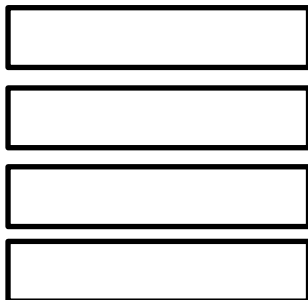
12. The area of a square is 64cm^2 .

a. Find the **perimeter** of the square.

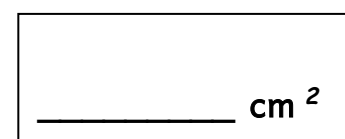


The square is cut into quarters to create **4 identical, small rectangles**.

b. Find the **perimeter** of **one small rectangle**.

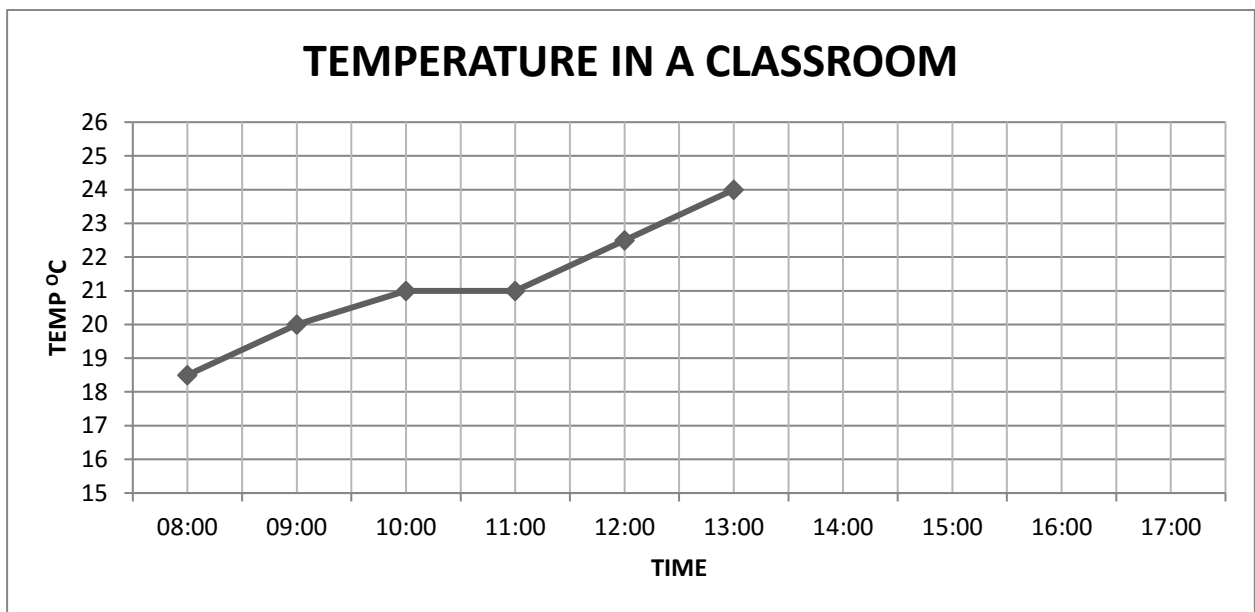


c. Find the **area** of one **small rectangle**.



13. The table shows the temperature in a classroom at different times of the day.
- a. Fill in the missing boxes in the table by using the graph below.

Time	08:00	09:00	10:00	11:00	12:00	13:00
Temperature °C	18.5		21	21		24



- b. At 2:00 p.m the temperature is 24.5 °C.
 At 4:30 p.m the temperature is 18.5 °C.
 Plot these values on the graph and continue the line graph.

c. Fill in the blanks.

- i. The highest temperature is _____ °C and the lowest temperature is _____ °C.
- ii. From _____ to _____ the temperature remains the same.

14. There are **three Year 6 classes** in *The Village Primary School*.
 Each child can practise football, netball or hockey.
 Use the following information to **complete the table below**.

- In **Year 6.1**, **13 children** choose hockey.
 The rest of the class are **divided equally** between football and netball.
- In **Year 6.2**, **9 children** choose Netball.
 The number of football players is double that of hockey.
- In **Year 6.3**, children are **divided equally** into 3 groups.

Complete the table.

Class	Football	Netball	Hockey	Total
6.1			13	27
6.2		9		33
6.3				30
Total				90



- 15a. The number in **A** is **twice** the number in **D**.
 The number in **B** is **5 less** than the number in **C**.
 The number in **D** is **10 more** than the number in **B**.

Write the missing numbers in this diagram.

A	50
B	
C	
D	



- b. Circle one number in each box to make a total of 1000.

150
250
350
450

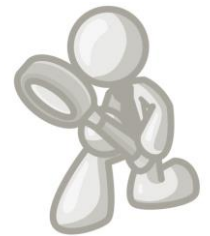
200
400

150
250
350
450

16. Follow the clues to find the mystery number.

The number table below will help you.

I am less than 90 but greater than 20.
I am a multiple of 3.
I am not a multiple of 6.
The sum of my digits is 9.
I am not a square number.
I am not a multiple of 5.
My second digit is smaller than my first digit.



The mystery number is

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	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

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