



ST NICHOLAS COLLEGE
HALF YEARLY PRIMARY EXAMINATIONS
February 2018

YEAR 5

MATHEMATICS WRITTEN

TIME: 1h 15 min

Name: _____

Class: _____

Total Mark

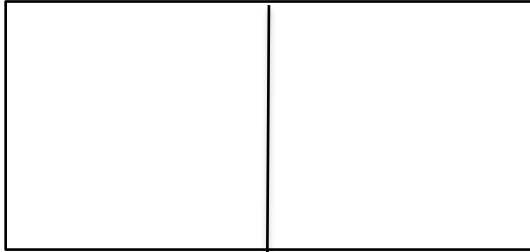
80

1. Work out.

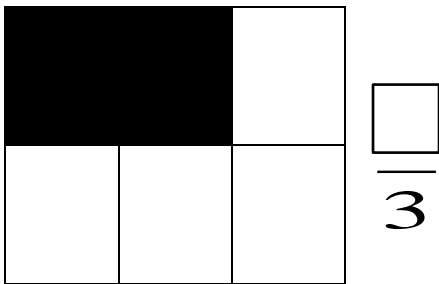
| | |
|----|---|
| a. | $246 + 143 =$ <input type="text"/> |
| b. | $490 - 120 =$ <input type="text"/> |
| c. | $7 \times$ <input type="text"/> $= 490$ |
| d. | $92 +$ <input type="text"/> $= 130$ |
| e. | $12 \cdot 3 + 1 \cdot 6 =$ <input type="text"/> $+ 12 \cdot 2$ |
| f. | $17 + 16$ Is the <u>total</u> odd or even? Tick (✓) the correct answer. <input type="checkbox"/> odd <input type="checkbox"/> even |
| g. | Double 320 is <input type="text"/> |
| h. | Write the next two numbers: i) 24 30 36 <input type="text"/> <input type="text"/> (ii) 79 77 75 <input type="text"/> <input type="text"/> |
| i. | Circle the smallest fraction: $\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{5}$ |
| j. | Which is the best estimate of $765 - 291$? <input type="text"/> 400 <input type="text"/> 500 <input type="text"/> 300 <input type="text"/> 600 |

(10 x 2 = 20 marks)

2 a. Shade $\frac{1}{4}$ of the following shape:



b. What fraction is shaded? Fill in the numerator.



c. Angela has **40 beads**.

She gives $\frac{1}{5}$ of the beads to her sister Maria.



How many beads does she have **left**?

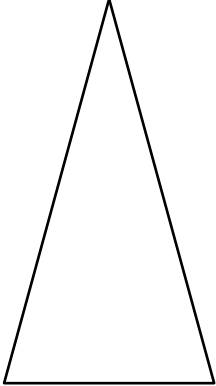

Show your
working here.

_____ beads

(4 marks)

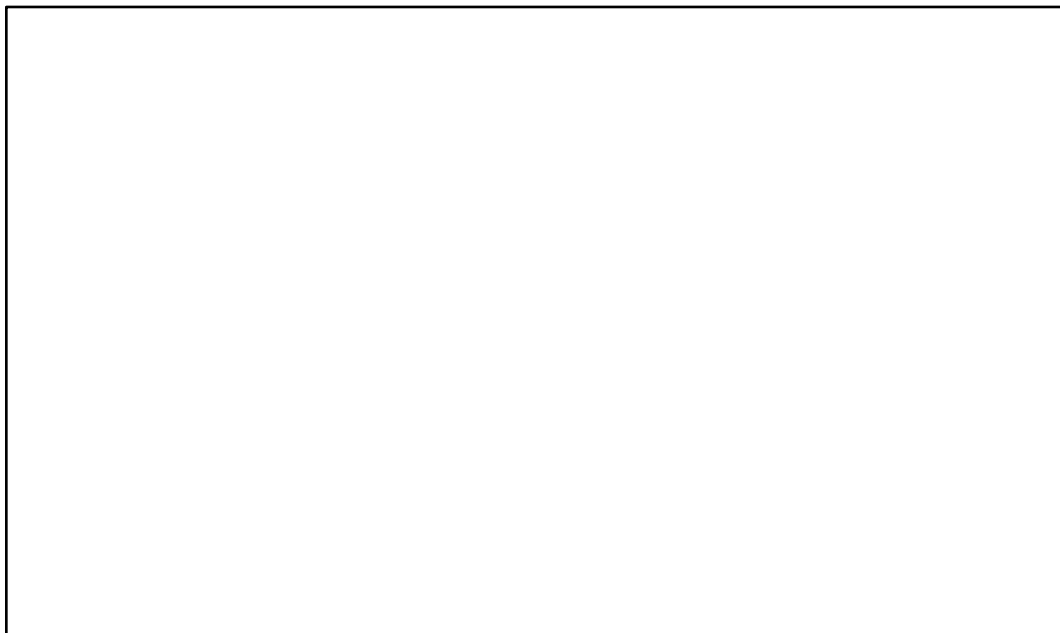
3a. How many **lines of symmetry** do these shapes have?

Tick (✓) the boxes showing the correct number.

| | | | | | |
|---|--------------------------|--------------------------|--|--------------------------|--------------------------|
|  | | |  | | |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1 | 2 | 3 | 2 | 4 | 5 |

b. In the box below, draw **a polygon with 4 sides and no lines of symmetry**.

Use a ruler.



(4 marks)

4. Use these cards to answer the questions below:

6

9

1

2

a. Write the **smallest 4-digit even number**.

b. Write a **4-digit number that when rounded to the nearest hundred is 6100**.

c. Write a **3-digit number, smaller than 900, but greater than 200**.

d. Write a **2-digit number which is divisible by three**.

(4 marks)

5a. Put these weights in order, lightest first.



3 kg 400 g

300 g

$2\frac{1}{2}$ kg

4.1 kg

lightest

heaviest

- b. Calculate the **difference** between the **lightest** and the **heaviest** weight.
Give your answer in grams.

Show your
working here.

_____ g

(4 marks)

6. Every Saturday, Jake watches his favourite T.V. show.

a. Look at Clock A.

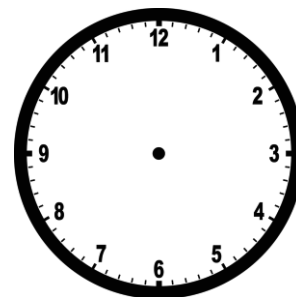
Write down the **analogue time** of when this show starts.



Clock A

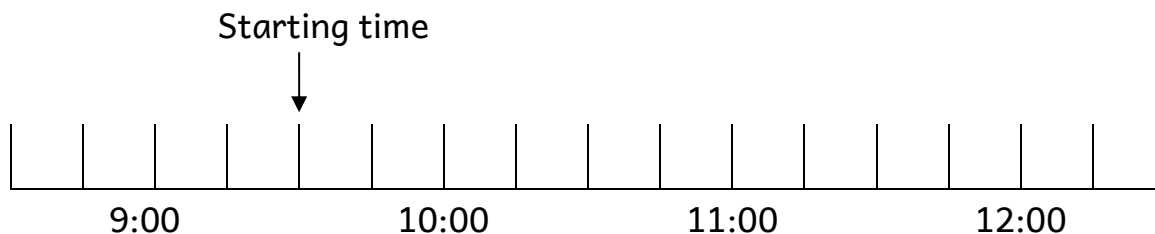
b. i) Clock B shows the time when the programme ends.

Draw the **hands of the clock** to show this time.



Clock B

ii) Mark (↓) the **finishing time** on the timeline.



c. How **long** is the show?

Show your working here.

(4 marks)

7. A survey was carried out amongst Year 5 students to understand how they get to school.

| <u>How children get to school</u> | <u>Frequency</u> |
|-----------------------------------|------------------|
| Car | 54 |
| Bus | 43 |
| Walk | |
| Bike | 25 |
| Van | |



- a. i) The number of children who get to school by **van** is **double** the number of children who get to school by **bus**.
- ii) The number of children who get to school **on foot** is **half** the number of children who get to school by **car**.

Complete the frequency table above.

b. What is the **difference** between children who use transport (car, bus, bike, van) and those who do not?

Show your working here.

_____ children

c. How **many** children took part in the survey?

Show your working here.

_____ children

(4 marks)

8. Look at the calendar below.

Now **answer** the questions that follow.

| JANUARY 2018 | | | | | | |
|--------------|-----|-----|-----|-----|-----|-----|
| SUN | MON | TUE | WED | THU | FRI | SAT |
| | 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 | | | | | |

a. Fill in the missing dates.

b. Alex goes to baseball training **every Saturday**.
In January he went _____ times.

c. Emma's birthday falls on the **last Monday of the month**. Alex's birthday is **ten days before**. Write the date of Alex's birthday.

 th January 2018.

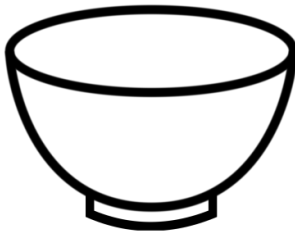
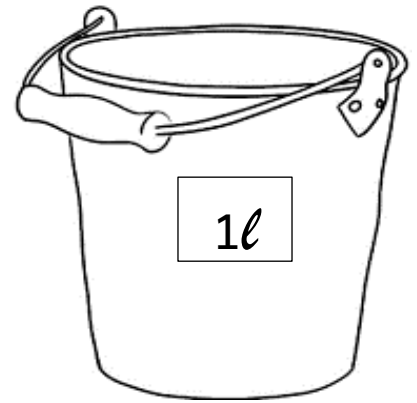
d. Every **Monday and Tuesday**, Alex runs errands for his grandmother.
Each time he helps her, she gives him **€1.50c**.
How much money does he earn in January?

Show your
working here.

 € _____

(6 marks)

9. Tom wants to fill his bucket.
The bucket holds **1 litre of water**.
He uses these bowls to fill the bucket.



500ml



200ml



600ml



50ml



150ml



100ml

Which **bowls** does he need to fill the bucket?
Show **two ways**.
Each bowl can be used only once.



Answer A

Answer B

(6 marks)

10. Mum goes to the greengrocer to buy fruit and vegetables.

This is the price list.

| FRUIT | VEGETABLES |
|---|---|
|  |  |
| 1 kg bananas €2.10c | 1 cucumber €0.65c |
| 1 kg apples €1.74c | 1 kg onions €2.68c |
| 1 kg oranges €2.12c | 1 kg potato €5.60c |

a. Mum spends more than €10 but less than €20.

Write down **two types of fruit** and **two types of vegetables** that she buys.

Show your working here.

Fruit

Vegetables

| | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

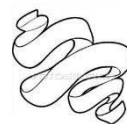
b. How much **change** does she get from €20?

Show your working here.

c. **Draw** the coins to show the change given.

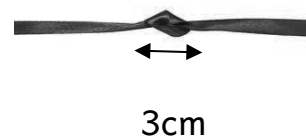
(6 marks)

11. John works on a school project and needs ribbon to decorate it.
Mum gives him six pieces of ribbon, each 23 cm long.



a. What is the **total length** of the ribbon?

b. John ties the pieces of ribbon together to form a longer ribbon.



i) **How many knots** does he make in all?

ii) If each knot takes up **3 cm** of ribbon, how **long** is the ribbon now?

c. John needs **1 m 30 cm** of ribbon to finish his project.

i) Does he have enough ribbon? Tick (✓) the correct answer.

 Yes No

ii) Give a reason for your answer.

(6 marks)

12. There are **500 students** in a school.

During the school council election, the students vote as follows:

- $\frac{1}{5}$ vote for Paul
- $\frac{2}{5}$ vote for Max
- 200 vote for Ann
- The rest vote for Norah.



a. How **many votes** does **Max** get?

Show your working here.

_____ votes

b. How **many votes** does **Norah** get?

Show your working here.

_____ votes

c. Who **wins** the election?

Show your working here.

(6 marks)

13. Look at the following numbers.

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|
| 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 |

Follow the clues to find the mystery number.

- I am less than 60 but greater than 20.
- I am a multiple of 4.
- I am not a multiple of 6.
- The sum of my digits is 7.
- My second digit is smaller than my first digit.



The mystery number is

Show your
working here.

END OF PAPER

(6 marks)

Marking Scheme

$$1a - j \quad 10 \times 2 \quad = \quad 20$$

$$2 - 7 \quad 6 \times 4 \quad = \quad 24$$

$$8 - 13 \quad 6 \times 6 \quad = \quad 36$$

$$\text{TOTAL} \quad = \quad 80$$