

CONVENT OF THE SACRED HEART SCHOOL FOUNDATION
JUNIOR SCHOOL
Sample Paper

YEAR 5

MATHEMATICS

TIME: 1h 30 min

Mental Questions

1. Find the total of 36, 44 and 27.
2. Listen to these numbers 15, 99, 11, 70. Which one is even?
3. How many lines of symmetry does an isosceles triangle have?
4. What is a shape with 8 sides called?
5. Subtract 90 from 356.
6. What is $\frac{4}{6}$ of 60?
7. Write 789 to the nearest 100.
8. Multiply 54 by 100.
9. Change $4\frac{3}{4}$ into an improper fraction.
10. A bus holds 6 people. How many buses are needed for 57 people?

Name: _____

Reg. No: _____

Class: _____

Section A: MENTAL MATHS

(10 marks)

Instructions

1. The teacher shall read 10 oral questions.
2. The teacher will read each question twice. Listen carefully to the question read.
3. You have 10 seconds to work and write each answer.
4. Write your answers in the boxes below.

1)

2)

3)

4)

5)

6)

7)

8)

9)

10)

Total :

SECTION 2

Instructions

- Read and work out every question carefully before writing your answer.
- If you cannot do one of the questions, go on to the next one. You can come back to it later.
- Use any space on the paper if you need to work out the answer
- **Write your name and register number at the top of each sheet of paper**

Place Value

Ex. 1. Write the Value of the Underlined Figure

(2 marks)

a) <u>7</u> , 412	
b) <u>2</u> 5, 001	
c) 3 <u>6</u> 6	
d) 4, <u>8</u> 41	

Ex. 2 . Write these numbers in expanded form

(2 marks)

a) 24, 879	
b) 7, 503	
c) 51, 002	
d) 9, 200	

Ex. 3. Write these numbers in figures

(2 marks)

a) Nineteen thousand, three hundred and thirteen.

b) Twenty thousand and four.

Mental Calculations

(5 marks)

Ex. 4. Fill in the missing information

a. $24 + 36 + 19 = \underline{\hspace{2cm}}$

b. $41 + 19 + 20 + 88 = \underline{\hspace{2cm}}$

c. $985 - \underline{\hspace{2cm}} = 945$

d. $\underline{\hspace{2cm}} \times 100 = 700$

e. $781 + \underline{\hspace{2cm}} = 1000$

Written Calculations

(4 marks)

Ex. 5. Work Out

a.
$$\begin{array}{r} 2811 \\ - 1499 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 24 \\ \times 5 \\ \hline \\ \hline \end{array}$$

c.
$$\begin{array}{r} \underline{\hspace{2cm}} \\ 5 \text{) } 107 \end{array}$$

d.
$$\begin{array}{r} 578 \\ + 484 \\ \hline \\ \hline \end{array}$$

Symmetry

Ex. 6. Draw the reflection of these shapes in the mirror line.

(10 marks)

The grid is 10 units wide and 10 units high. Each shape and its mirror line are defined as follows:

- a:** A shape made of 6 squares. The mirror line is a vertical dashed line at column 5.
- b:** A 3x3 square shape. The mirror line is a vertical dashed line at column 8.
- c:** A shape made of 6 squares. The mirror line is a vertical dashed line at column 4.
- d:** A shape made of 8 squares. The mirror line is a vertical dashed line at column 7.
- e:** A shape made of 6 squares. The mirror line is a vertical dashed line at column 6.

Fractions

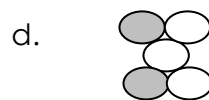
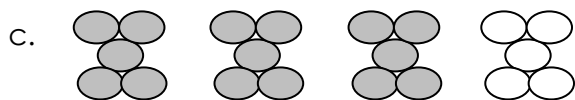
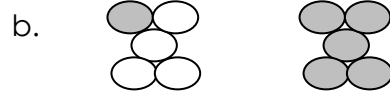
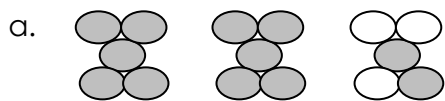
Ex. 7. Write these fractions in order, starting from the smallest.

(6 marks)

$$\frac{4}{5}, \frac{7}{8}, \frac{1}{4}, \frac{1}{2}, \frac{2}{5}, \frac{5}{6}$$

Ex. 8. Write a fraction that represents the fraction of the shapes that have been shaded.

(4 marks)



Ex. 9. Write two equivalent fractions to the fraction given

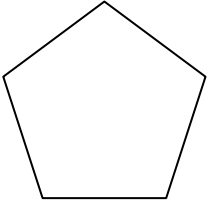

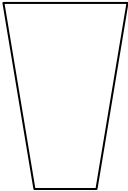
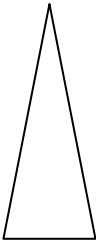
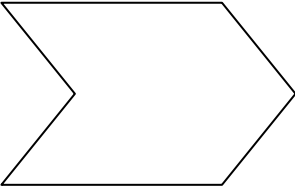
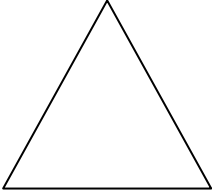
(4 marks)

a. $\frac{7}{9} =$

b. $\frac{1}{8} =$

Polygons

Ex. 10. Match each polygon with its correct name by the correct letter in the appropriate box. (6 marks)

	<u>Polygon</u>		<u>Name</u>
a.			Isosceles triangle
b.			Regular Pentagon
c.			Regular quadrilateral
c.			Equilateral triangle
d.			Irregular quadrilateral
e.			Irregular hexagon

Addition , Doubling and Halving

Ex. 11. Find how much it will cost the following people to visit the mentioned places.

(10 marks)

Paris € 588

Pisa € 296

Egypt € 884

London € 460

Mediterranean Cruise € 1,040

Special offer:
Children travel
at **HALF**
PRICE!!!

1. Sandra and Keith together with their twins to London

2. Alexia, Robert and Laura to Paris

3. Maria together with her 5 year old daughter to Pisa.

4. Mr & Mrs Jones together with their 3 children on a Mediterranean Cruise.

5. Grandma and Grandpa together with their grandson to Egypt.

Multiples

Ex. 12. Some of the calculations are correct whilst others are wrong.

(5 marks)

Put a ✓ in the box near the answer if the answer is correct.

Put a ✗ in the box near the answer if the answer is wrong and write the correct answer, as shown in the example.

		✓ / ✗	Correct Answer
a.	$3 \times 7 = 22$	✗	21
b.	$2 \times 8 = 17$		
c.	$89 \div 8 = 11 \text{ r } 2$		
d.	$56 \div 8 = 7$		
e.	$9 \times 9 = 72$		
f.	$6 \times 6 = 1$		
g.	$7 \times 7 = 49$		
h.	$64 \div 8 = 8$		
i.	$3 \times 4 = 12$		
j.	$36 \div 8 = 4 \text{ r } 3$		
k.	$5 \times 8 = 40$		

Rounding

Ex. 13. Rounding to the nearest 10. Circle the correct answer

(4 marks)

a. 614 =	620	600	610
b. 75 =	0	70	80
c. 406 =	400	410	420
d. 889 =	800	1000	900

Ex. 14. Rounding to the nearest 100. Circle the correct answer

(4 marks)

a. 444 =	440	400	500
b. 85 =	0	90	100
c. 301 =	300	310	400
d. 549 =	500	550	600

Problems

Ex. 15. Solve the following problems.

Write your workings in the space below each problem. You can use mental or written methods.

Remember to write your answers at the end of the working. (22 marks)

1. Samantha wants to buy a birthday present for her brother. She has saved € 253. Her mother gives her another €12 and her grandma gives her another € 26.

a) How much money does she have in all? (2 mark)

b) She spends €3 on a card and € 2 on a wrapper. How much money does she have now? (1 mark)

c) She buys him a stereo which costs € 189. How much money does she have left? (2 marks)

d) Does she have enough money to buy him a €25 cd? (1 mark)

2. Mrs Adam baked some muffins. $\frac{2}{5}$ of the muffins were eaten by Carl. 25 muffins were eaten by Alexia.

a) How many muffins were there in all? (2 marks)

b) $\frac{3}{4}$ of the muffins were vanilla. How many were chocolate? (3 marks)

c) What fraction of the muffins were chocolate? (1 mark)

3. In a lottery competition there were 7 winners. Together they won € 420.

a. How much will they each get?

(2 marks)

b. One of the winners decided not to take the money and so the amount was shared amongst the rest of the winners. How much will they get now?

(2 mark)

4. Sweets come in packets of 9. Anna ate 77 sweets in a week. How many whole packets did she eat and how many sweets does she have left?

(3 marks)

5. Shaun decided to try out his luck. He inserted 14c in a machine and his amount doubled. Then, the amount was multiplied by 9 and then divided by 6. How much money did he end up with?

(3 marks)