Mathematics
Grade 6
2012
Total: 60

INFORMATION:

1.   **The paper consists of 5 questions.**

2.   **Content of the paper:**

CONTENT AREA	PERCENTAGE	TOTAL MARKS
Numbers, Operations and Relationships	30%	18
Patterns, Functions and Algebra	20%	12
Space and Shape	25%	15
Measurement	10%	6
Data Handling	15%	9

3.   **This paper can be used for <u>revision</u> purposes only.**

1. NUMBERS, OPERATIONS AND RELATIONSHIPS.

1.1 **What is the place value of the underline digit?**
1.1.1   **453 524**
1.1.2   **12,58**   (2)

1.2 **Round 375 988 off to the nearest hundred.**   (1)

1.3 **Add < ; = or > to make the following statement true:**
$$\frac{1}{4} ? \frac{1}{7}$$ (1)

1.4 **Calculate the following (show all the calculations)**

1.4.1   **8780 ÷ 153**   (3)

1.4.2   **914 + 845 + 124**   (1)

1.4.3   **23 × 259**   (1)

1.5 **Add and subtract the following numbers:**
1.5.1 $$\frac{2}{9} + \frac{4}{5} - \frac{1}{2}$$ (3)

1.5.2 $$6\frac{1}{2} - 1\frac{6}{7}$$ (3)

1.6 **Peter is participating in a cycle race of 35 km. If he completes $\frac{5}{7}$ of the race, how far did he cycle?**   (2)

1.7 **Write down the prime numbers between 10 and 25.**   (1)
                                                                                          [18]

2. PATTERNS, FUNCTIONS AND ALGEBRA.

2.1 **Fill in the missing numbers for the given patterns:**
2.1.1   **1,4; ___ ; 1,6; 1,7; __ ; 1,9**   (2)
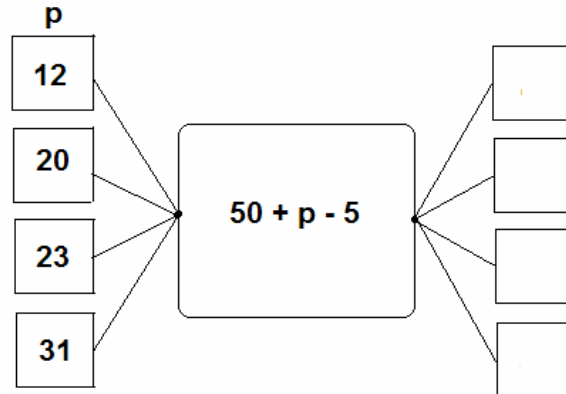**2.1.2**   **5; 7; 11; 17; ___ ; ___**   (2)

2.2. **Complete the following**

x	0	2	5	20
y				

(2)

2.3. **Write down the number sentence using the given symbols.**

m	4	5	6	7
n	12	13	14	15

(2)

2.4. **Complete the flow diagram.**

p

| 12 |
| 20 |
| 23 |
| 31 |

50 + p - 5

(4)
[12]

3. **SPACE AND SHAPE**

3.1 **Write down the name of the 2-D object in the sketch below.**
3.1.1   **3.1.2**
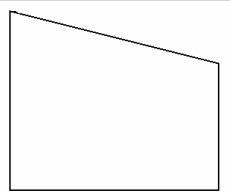
(2)

3.2   Write down the name of the 3-D object in the sketch below.
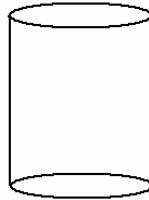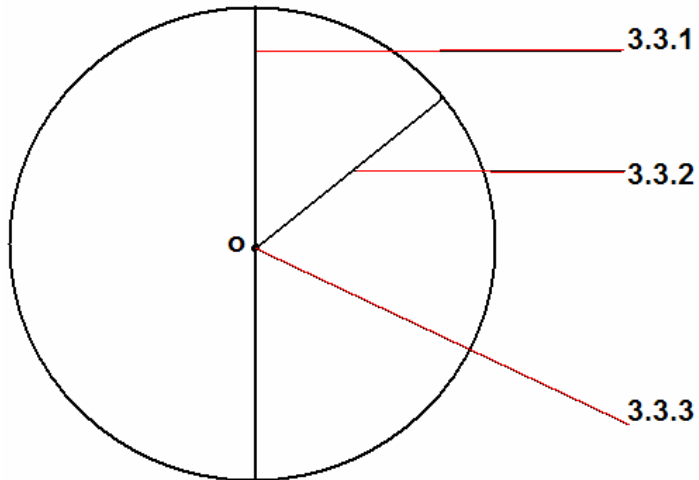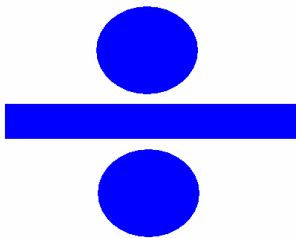**3.2.1**   **3.2.2**
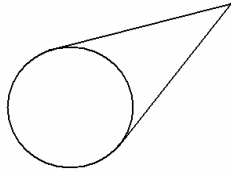
                                                                    (2)

3.3   Provide the correct terminology for the circle as drawn below.

3.3.1

3.3.2

O

3.3.3
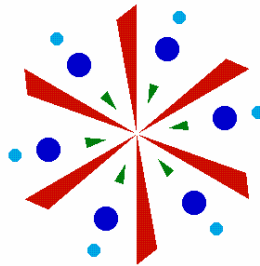
                                                                    (3)

**3.4   Add the vertical and/or horizontal lines of symmetry to the given
         sketches.**

3.4.1   **3.4.2**

                                                                    (3)

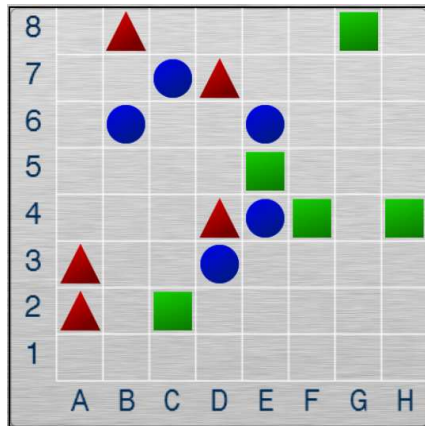**3.5   Write down the position of all the circles.**

(5)
[15]
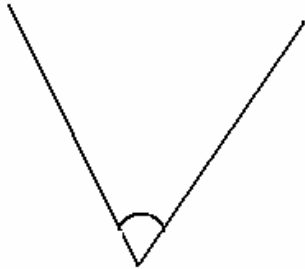
4.   **MEASUREMENT**

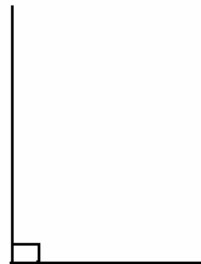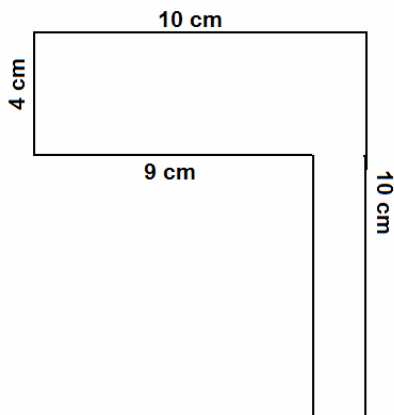4.1   **Classify the given angles according to there size.**
4.1.1   4.1.2

(2)

4.2   **Calculate the perimeter of the sketch below.**
       Convert the answer to mm.

10 cm

4 cm

9 cm

10 cm

(2)

4.3 The time reflected on the clock is quarter to six in the afternoon.
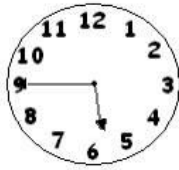
Write the time in digital form. (2)

[6]

5. **DATA HANDLING**

5.1 The table below shows the amount of tennis games won by various players.

5.1.1 Complete the table and use the information to answer the questions.

	Tally	Frequency
Anne	||||	
Peter	|||| |||| |||	
John	||	
Sipho	||||		

(2)

5.1.2	Who won the most tennis games?	(1)
5.1.3	How many tennis games were won all together?	(1)
5.1.4	Who won the least amount of tennis games?	(1)

5.2 A six-sided dice is rolled.
| 5.2.1 | How many possible outcomes are there? | (1) |
| 5.2.2 | What is the sample space? | (1) |

5.3 Select the probability (certain, possible or impossible), for the given event:
| 5.3.1 | Friday comes directly after Thursday. | |
| 5.3.2 | My dog can fly. | (2) |

[9]

TOTAL: 60