

SECONDARY SCHOOL ANNUAL EXAMINATIONS 2007

Educational Assessment Unit – Education Division

FORM 1

MATHEMATICS – Scheme D
(Non-Calculator Paper)

TIME: 30 minutes

Mark

DO NOT WRITE ABOVE THIS LINE

Name: _____

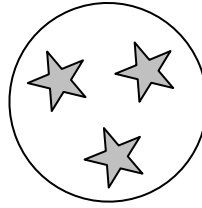
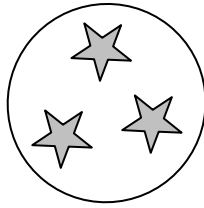
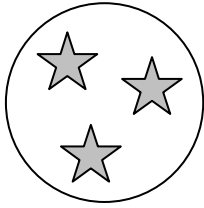
Class: _____

INSTRUCTIONS TO CANDIDATES

- **Answer all questions.**
- **This paper carries 40 marks.**
- **Calculators and protractors are not allowed.**

Questions

1.



How many stars in all?

Ans: _____ stars

(1 mark)

2. Write in figures:

(a) thirty-six _____

(b) forty-eight _____

(c) sixty-five _____

(3 marks)

3. Complete:

26, _____, 28, _____, 30, _____, 32.

(3 marks)

4. Write correct to the nearest ten:

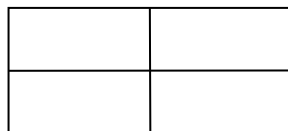
18 \longrightarrow _____

31 \longrightarrow _____

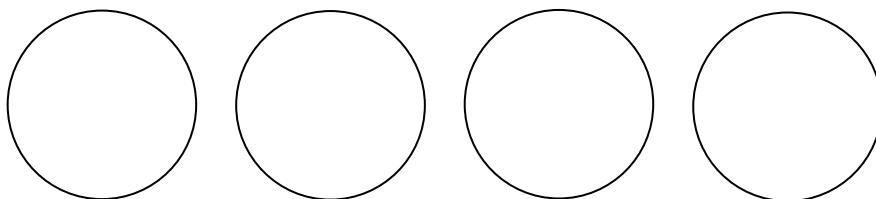
45 \longrightarrow _____

(3 marks)

5. (a) Shade $\frac{3}{4}$ of this diagram:



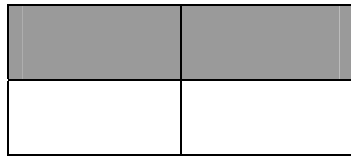
(b) Shade $3\frac{1}{2}$ of these circles:

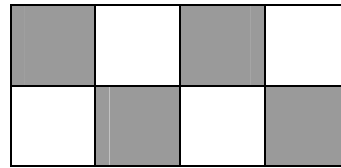


(3 marks)

D

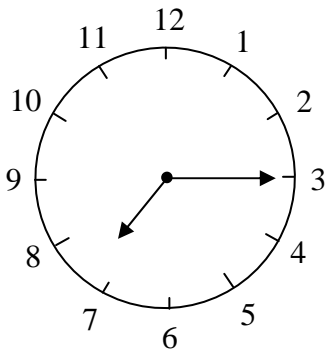
6. What fraction of each diagram is shaded?

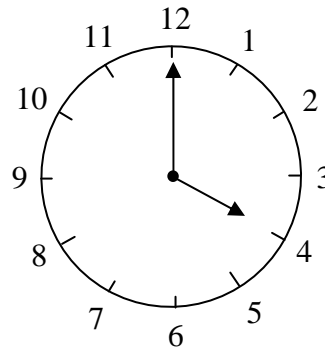




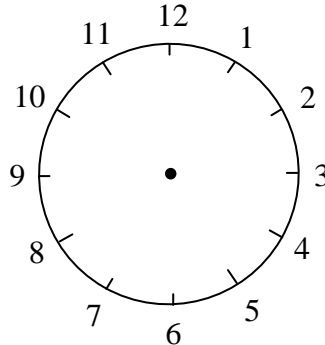
(2 marks)

7. (a) Write the time shown.

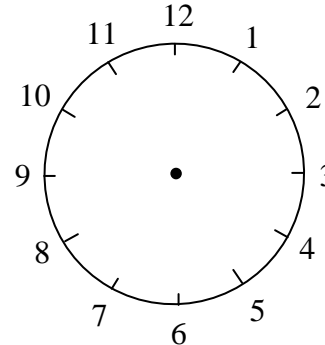




(b) Draw the hands of the clock to show:



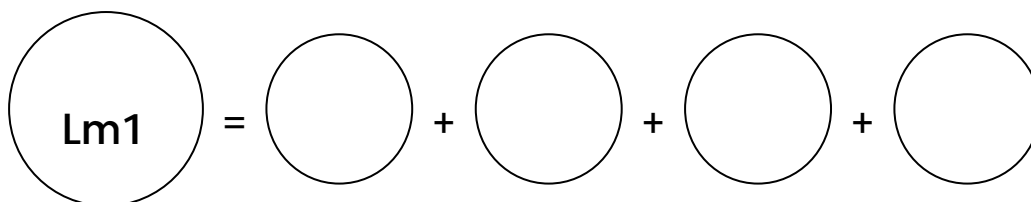
Ten o'clock



Half past 9

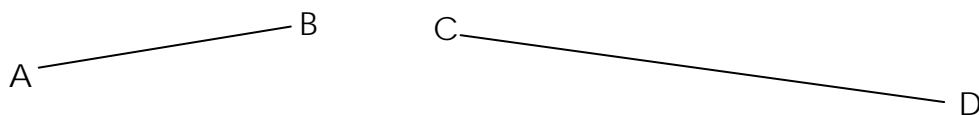
(4 marks)

8. Change Lm1 to four coins of the same value.



(1 mark)

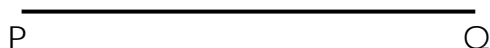
9.



The **line AB** is _____ (shorter, longer) than the **line CD**.

(2 marks)

10. (a) Measure the line PQ.



Ans: _____ cm

(b) Write the length of PQ in **millimetres** (mm).

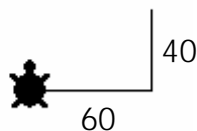
Ans: _____ mm

(c) Draw a line 40 **millimetres** long.

(3 marks)

11. Fill in:

PD	
RT	90
FD	_____
_____	90
FD	_____



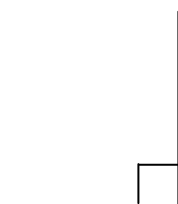
(3 marks)

12. Fill in using:

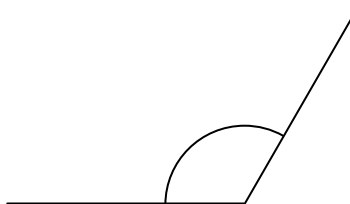
smaller than 90°,

90°,

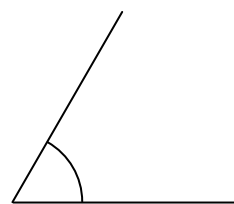
larger than 90°



(a)



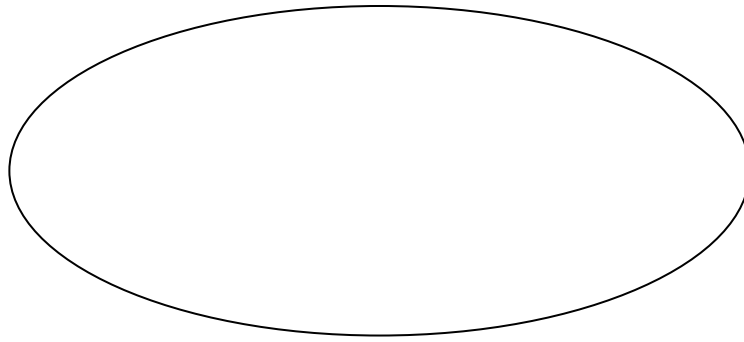
(b)



(c)

(3 marks)

13. Draw the two lines of symmetry:



(2 marks)

14. Fill in using:

Cone

Sphere

Cube



(a) _____

(b) _____

(c) _____

(3 marks)

15. Complete this table:

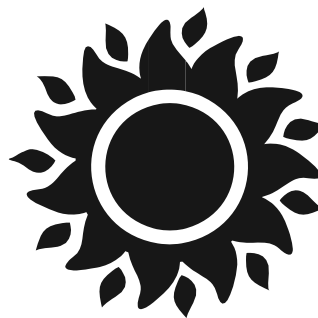
	A	B	C
1	A1	B1	C1
2	A2	B2	
3	A3		

(3 marks)

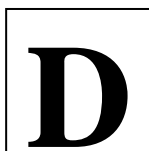
16. Underline the correct answer:

Sunshine in summer is:

- A. impossible
- B. likely
- C. certain.



(1 mark)



SECONDARY SCHOOL ANNUAL EXAMINATIONS 2007
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FORM 1

MATHEMATICS – Scheme D
(MAIN PAPER)

TIME: 1h 30min

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total Main	Non Calculator	Global Mark
Mark																			

DO NOT WRITE ABOVE THIS LINE

Name : _____

Class : _____

CALCULATORS ARE ALLOWED

ANSWER ALL QUESTIONS.

1. (a) $6 + 4 = 3 + \square$.
- (b) $\square + 8 = 9 + 1$.
- (c) $15 + 5 = \square$.
- (d) $\square + 8 = 20$.

(4 marks)

2. What is the value of **2** in each number?

125 31**2** **2**63

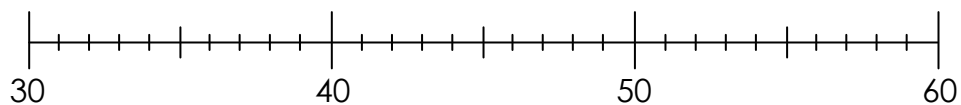
(3 marks)

3. Put in order, **smallest first**.

125, 251, 152, 521.

(3 marks)

4. Use the number line to work out:



(a) $36 + 8 = \underline{\hspace{2cm}}$

(b) $55 - 49 = \underline{\hspace{2cm}}$

(4 marks)

5. Fill in:

(a) $38 \times 2 = (\square \times 2) + (8 \times \square)$

(b) $27 \times 5 = (20 \times 5) + (7 \times 5)$
 $= \square + \square$
 $= \square$

(5 marks)

6. Work out correctly:

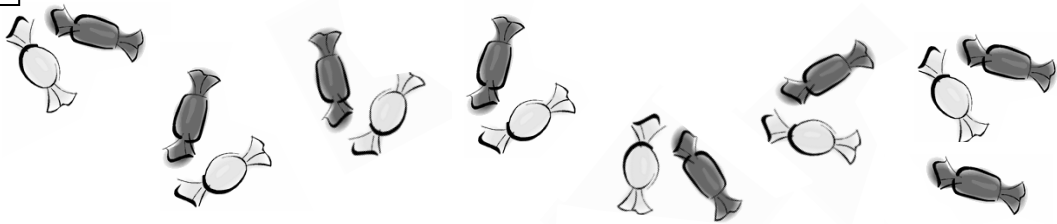
(a) $\boxed{15} \rightarrow \boxed{-3} \rightarrow \boxed{+2} \rightarrow \boxed{\hspace{1cm}}$

(b) $\boxed{19} \rightarrow \boxed{-3} \rightarrow \boxed{-5} \rightarrow \boxed{\hspace{1cm}}$

(4 marks)

D

7. Share **15 sweets** equally among **3 friends**: Ann, John and Mary.



Ann _____

John _____

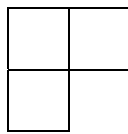
Mary _____

(2 marks)

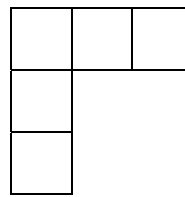
8. (a) Draw the next pattern:



Pattern 1



Pattern 2



Pattern 3

Pattern 4

(b) Complete:

Pattern	1	2	3	4
No. of squares	1	3	5	

(2 marks)

9. (a) Round each number to the nearest 10 to get a **rough** answer.

$$62 + 39 - 18$$

$$\underline{\quad} + \underline{\quad} - \underline{\quad} = \underline{\quad}$$

(b) Use your **calculator** to work out:

$$62 + 39 - 18 = \underline{\quad}$$

(5 marks)

10. **Match.** The first one is done for you.

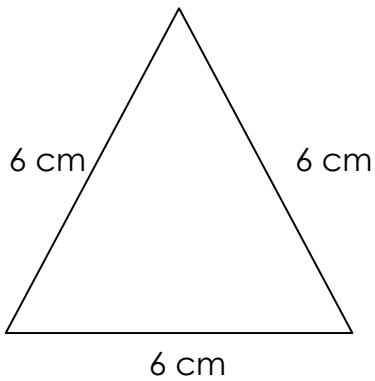
60 seconds	60 minutes
1 week	1 year
12 months	1 minute
1 hour	1 day
24 hours	7 days

(Note: An arrow points from '60 seconds' to '1 minute' in the original image.)

(4 marks)

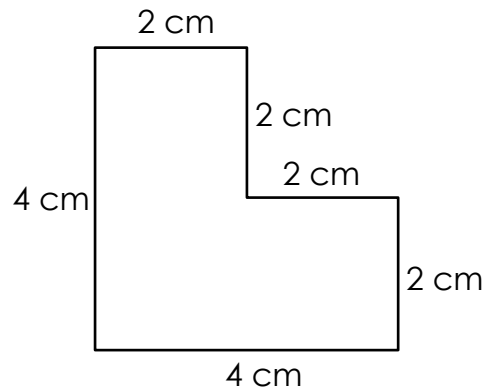
11. What is the perimeter of these shapes?

(a)



Perimeter: _____ cm

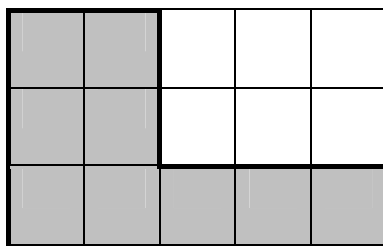
(b)



Perimeter: _____ cm

(4 marks)

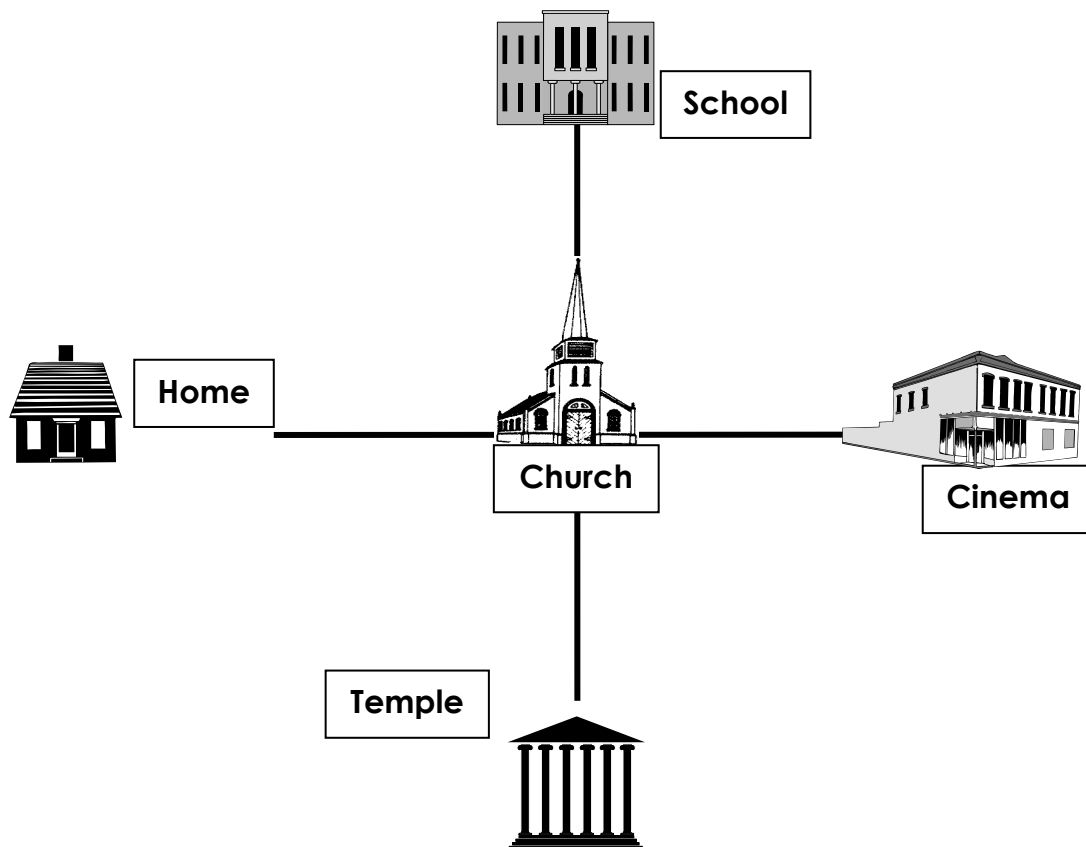
12. Each square is 1 cm^2 . What is the area of the shaded shape?



Ans: _____ cm^2

(2 marks)

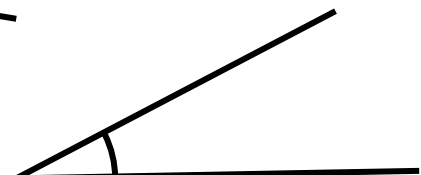
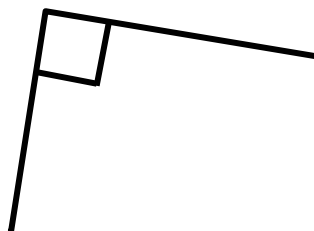
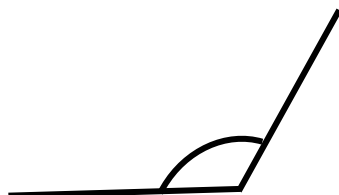
13.



- (a) The **Temple** is (North/South) of the **Church**. _____
- (b) The _____ is East of the **Church**.
- (c) The school is (North/South) of the **Church**. _____
- (d) The _____ is West of the **Church**.

(4 marks)

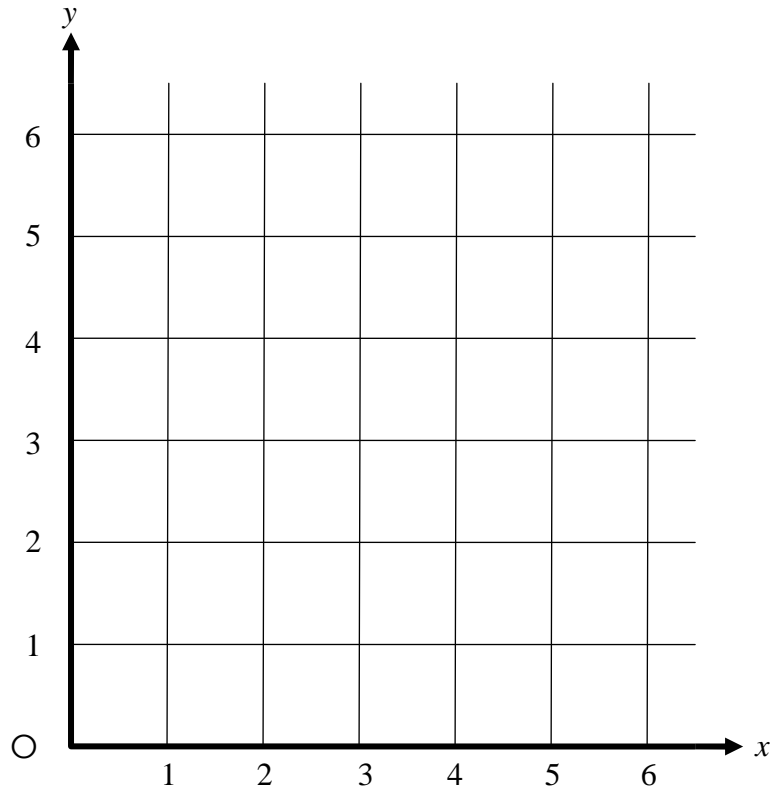
14. Fill in using: **ACUTE ANGLE**, **OBTUSE ANGLE**, **RIGHT ANGLE**.



- (a) _____ (b) _____ (c) _____

(3 marks)

15. (a) Plot these points on the grid: **A** (1, 1) **B** (1, 4) **C** (2, 3) **D** (3, 4) **E** (3, 1).



- (b) Join A to B, B to C, C to D and D to E.

- (c) The letter _____ is formed.

(6 marks)

16. In a class, 10 students have a dog, 12 have a cat and 5 have a fish.

- (a) Fill this frequency table:

PET	DOG	CAT	FISH
Number of students			

- (b) Which pet is the **most** popular? _____.

- (c) Which pet is the **least** popular? _____.

(5 marks)

END OF PAPER