Half-yearly assessment

Name : _____

Whole Number

Understanding: **Limited**   **Basic**   **Sound**

1. Rewrite these numbers with the correct spacing
   a) 839 0348 ___*8 390 348*___
   b) 2387 3402 8 ___*238 734 028*___

2. What is the place value of the numerals in bold type?
   a) 834 **854** 293 ___*hundred thousand*___
   b) **7**23 724 083 ___*ten million*___

3. Rewrite these numbers in order from smallest to largest.
   76 236, 92 873, 25 637, 50 734

   _____*25637, 50734, 76236, 92873*_____

Addition and Subtraction

Understanding: **Limited**   **Basic**   **Sound**

4. Write an addition problem using the numbers 8300 and 2568. Then solve your problem.
   Students' answers will vary.
   10,868

5. Solve the following subtractions, writing how you solved them in the space provided.
   a) 703 − 368 = _____*335*_____
      Students' answers will vary.

   b) 6205 − 4097 = _____*2108*_____
      Students' answers will vary.

Multiplication and Division

Understanding: **Limited**   **Basic**   **Sound**

6. Write an estimate for the following problems.
   a) 73 × 28 = _____*2100*_____
   b) 834 × 52 = _____*40000*_____

7. Complete the following.

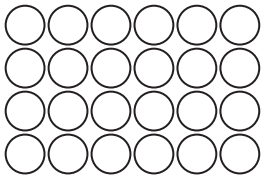 $\frac{735}{5}$ OR 734 ÷ ⌐5⌐ OR ⌐5⌐ $)\overline{735}$

8. Matthew purchases a lawnmower using a lay-by system. He makes 3 equal payments of $418. How much did the lawnmower cost?

$1254

Fractions and Decimals

Understanding: Limited   Basic   Sound

9. Complete the following.

a) $\frac{3}{4}$ of 24 = $\boxed{18}$ c) $\frac{5}{6}$ of 24 = $\boxed{20}$

b) $\frac{2}{3}$ of 24 = $\boxed{16}$ d) $\frac{7}{12}$ of 24 = $\boxed{14}$

10. Complete the following by inserting <, > or = in the space provided.

a) $\frac{3}{12}$ $\boxed{<}$ $\frac{9}{12}$ c) $\frac{2}{3}$ $\boxed{<}$ $\frac{11}{12}$

b) $\frac{1}{6}$ $\boxed{<}$ $\frac{1}{3}$ d) $\frac{1}{4}$ $\boxed{=}$ $\frac{3}{12}$

Patterns and Algebra

Understanding: Limited   Basic   Sound

11.

a) Draw the next 3 items in this pattern.
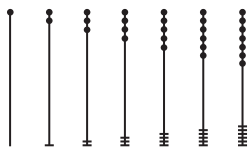
b) Using the pattern above complete the table below and graph the points.

Number of dots	1	2	3	4
Number of lines	*0*	*1*	*2*	*3*

c) Describe the pattern that links the number of dots to the number of lines.

Number of dots minus one = number of lines

d) If there are 13 dots, how many lines will there be? _____*12*_____

e) If there are 27 lines, how many dots are there? _____*28*_____
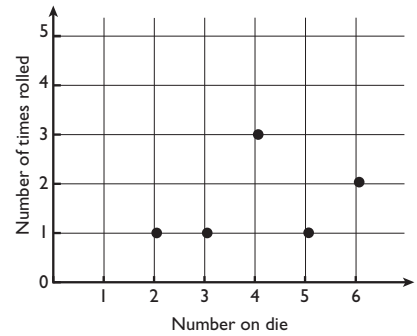
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Data

12. A die was rolled 10 times and the score was recorded below.

5, 6, 6, 1, 2, 4, 3, 3, 3, 5

a) Present these results in a table and on a dot plot.

Number on Die	Roll Tally	Total
1	I	1
2	I	1
3	III	3
4	I	1
5	II	2
6	II	2

b) What is the mode? _____ 3 _____

c) What is the median of this data set? _____ 3.5 _____

Length

Understanding: **Limited**   **Basic**   **Sound**

13. What unit would you use to measure the length of the following?

a) A swimming pool _____ m _____   b) The Murray River _____ km _____

14. How many of the following items would you need to line up end-to-end to have a length of 1 km?

a) A 100 m long football field _____ 10 _____   b) A 4 m long mini-van _____ 250 _____

15. How far has this vehicle travelled?

_____ 18765 km _____

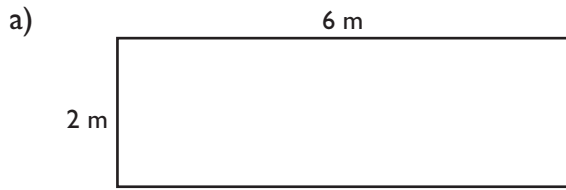## Area

Understanding: **Limited**   **Basic**   **Sound**

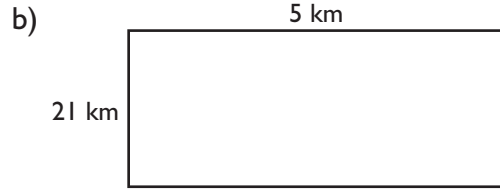16. Each grid square represents 1 hectare. What is the area of the shape?
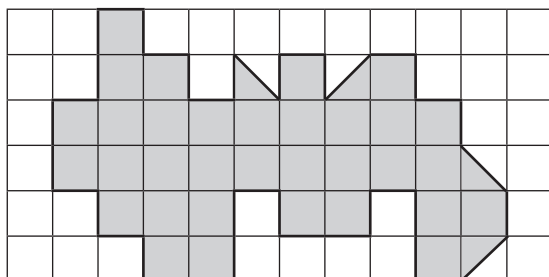
_____ 35 hectares _____

17. Calculate the area of these rectangles, showing how you did it in the space provided.

a)

6 m

2 m

$6 \times 2 = 12m^2$
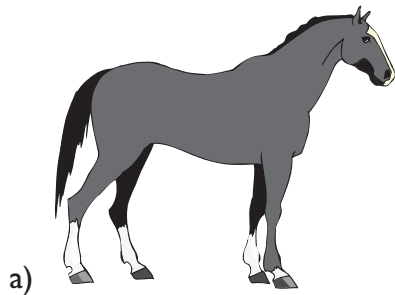
b)

5 km

21 km

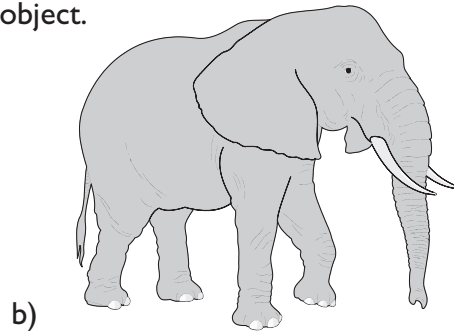$21 \times 5 = 105km^2$

Mass and Temperature

Understanding: Limited   Basic   Sound

18. Circle the most likely mass for each object.
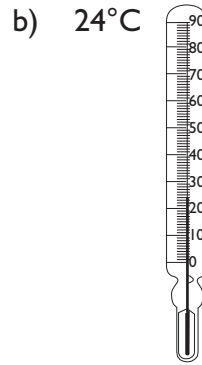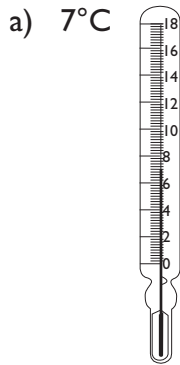
a)

400 kg   4 t   40 t

b)

300 kg   3 t   30 t

19. Record on the thermometers the temperature that is indicated.

a) 7°C

18
16
14
12
10
8
6
4
2
0

b) 24°C

90
80
70
60
50
40
30
20
10
0

Time

Understanding: Limited   Basic   Sound

20. Use the program to answer the questions.

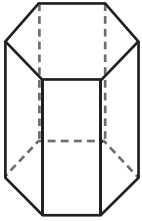| 10:00 a.m. | Dog trials |
12:00 p.m.	Cattle parade
12:30 p.m.	Marching band competition
2:00 p.m.	Show jumping
4:30 p.m.	Moto-X display

a) What time is the cattle parade? _____12:00 pm_____

b) If I arrive at 1330 hrs and leave at 1500 hrs, what will I see?

Show Jumping

Shape

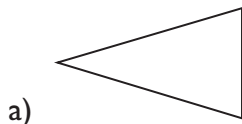21. Marta says that this shape is a rectangular prism, but Dana says that it is a hexagonal prism.

Who do you agree with and why?

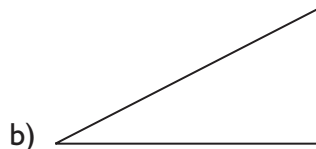*Dana - both ends of the prisms are hexagons*

Geometric Reasoning

22. Identify the types of triangles below. Then explain how you determined what sort of triangles these were.

a)

Scalene triangle
(no equal sides)

b)
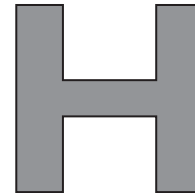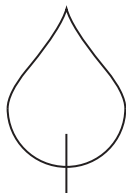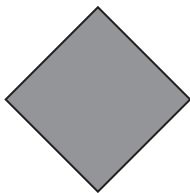

Right - angled
triangle
(there is a right angle)

Transformation

23. Colour the shapes that have rotational symmetry.

Location

24.

	A	B	C	D	E	F
1	○					
2		☹		△		☺
3				✿		
4		▢			●	
5						
6			▲			■

a) Label the grid above.

b) In which grid square will you find:

   i. the smiling face?   _F2_

   ii. the black triangle?   _C6_

c) Draw a flower in the grid square D3.

d) What object is 3 spaces to the left of the black circle?   _White square_