Yearly assessment

Name: _____

Whole Numbers

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

1. Write a four-digit number with a 2 in the:

    a) tens place. _*3124*_   b) hundreds place. _*1289*_

    c) ones place. _*4612*_   d) thousands place. _*2455*_

2. How many tens altogether are there in the number:

    a) 457? _*5*_   b) 801? _*0*_

3. Write each number in expanded notation.

    a) 2581 _____ *Two thousand five hundred and eighty one* _____

    b) 7035 _____ *Seven thousand and thirty five* _____

4. a) How many ways can 0, 1, 2 and 9 be written as a three-digit number? _*129. 219. 921.*_
912. 291. 192. 901. 902. 910. 920. 209. 290. 102. 109. 120. 190. 201. 210

    b) Write the numbers from part a) in ascending order. _*102. 109. 120.*_
129. 190. 192. 201. 209. 210. 219. 290. 291. 901. 902. 910. 912. 920. 921

    c) List three numbers between 3200 and 3400.

       _*3288*_   _*3355*_   _*3399*_

Addition and Subtraction

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

5. a)

$$\begin{array}{r} 4\ 5 \\ +2\ 3 \\ \hline 6\ 8 \end{array} \qquad \begin{array}{r} 4\ 6 \\ +3\ 8 \\ \hline 8\ 4 \end{array} \qquad \begin{array}{r} 1\ 9 \\ +6\ 1 \\ \hline 8\ 0 \end{array}$$

   b)

$$\begin{array}{r} 7\ 5 \\ -1\ 1 \\ \hline 6\ 4 \end{array} \qquad \begin{array}{r} 5\ 6 \\ -2\ 9 \\ \hline 2\ 7 \end{array} \qquad \begin{array}{r} 8\ 0 \\ -3\ 2 \\ \hline 4\ 8 \end{array}$$

6. The answer is 172. What might the question be? Write down two possible questions using subtraction.

   Students' answers will vary.

   _____

7. What is the total of 346 and 72? __418__

8. Create different addends for each sum.

   a)

	H	T	O
+	1	0	3
	1	3	4
	2	3	7

   b)

	H	T	P
+	5	2	3
	4	6	5
	9	8	8

Multiplication and Division

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

9. a) i) $9 \times 3 =$ __27__

      ii) $28 \div 7 =$ __4__

      iii) $8 \times 7 =$ __56__

      iv) $36 \div 6 =$ __6__

   b) Write and solve a word problem to suit each number sentence.

      i) $5 \times 6 =$ _____ 30

      ii) $16 \div 4 =$ _____ 4

   c) List the first five multiples of 6.

      ____6____   ____12____   ____18____   ____24____   ____30____

Fractions and Decimals

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

10. a)   Show different ways to cut these squares into thirds.
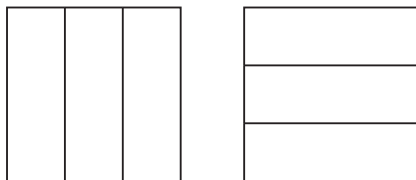
   b) What is:

      i) $\frac{1}{3}$ of 15? __5__   ii) $\frac{1}{5}$ of 20? __4__

   c) Order these fractions from smallest to largest: $\frac{15}{100}, \frac{5}{100}, \frac{51}{100}, \frac{50}{100}$.

      $\frac{5}{100}, \frac{15}{100}, \frac{50}{100}, \frac{51}{100}$

Financial Maths

Understanding: Limited   Basic   Sound

11. a) Write 60 cents in decimal form. ___0.6___

    b) How many cents in:

       i) $1.50? ___150___   ii) $7.25? ___725___

    c) If you buy two apples at $1.75 each, how much change would you get from $10?

       ___$6.50___

Patterns and Algebra

Understanding: Limited   Basic   Sound

12. a) Continue these counting patterns.

6	12	18	24	30	36	42
9	18	27	36	45	54	63

    b) Can numbers be multiplied in any order to get the same answer? ___Yes___
       Explain your answer using examples.
       Students' answers will vary.

    c) Write a number pattern with at least five terms with the following rules:

       i) Add 10. _____2, 12, 22, 32, 42_____

       ii) Subtract 6. _____76, 70, 64, 58, 52_____

Length

Understanding: Limited   Basic   Sound

13. a) Name three objects in your room with a length between 50 mm and 100 mm.
       ___button___   ___rubber___   ___staple___
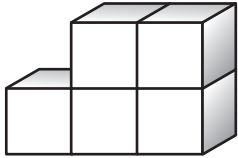
    b) Use a ruler to draw a line of:

       i) 22 mm. ___22mm___

       ii) 4 cm and 7 mm. ___4cm___
       ___7mm___

    c) How many mm in 54 cm? ___540___

Volume and Capacity

Understanding: Limited   Basic   Sound

14. What is the volume of this solid? Include the units.

Volume = _____ $5\,cm^3$ _____

Mass

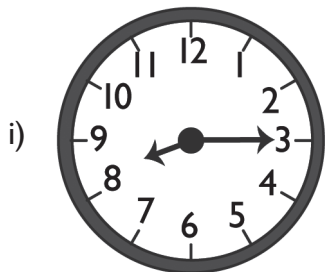**Understanding:**   Limited   Basic   Sound

15. Name an item in your classroom that has a mass:

     a) less than 1 kg. _____ *pen* _____

     b) more than 1 kg. _____ *table* _____

     c) about 1 kg. _____ *large stapler* _____

Time

Understanding: Limited   Basic   Sound

16. a) Write each time on the digital clock.

     i)

$08 : 15$

     ii) a quarter to 6

$05 : 45$

     b) Write in digital time:

         i) 5 minutes before 3:42 _____ *3:37* _____   iii) 10 minutes after $\frac{1}{4}$ to 10 _____ *10:25*

         ii) 8 minutes after $\frac{1}{2}$ past 7 _____ *7:38* _____   iv) 6 minutes after one fifty-five _____ *2:01*

     c) How many seconds in:

         i) one minute? _____ *60* _____   ii) three minutes? _____ *180* _____

         iii) half a minute? _____ *30* _____

3D Space

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

17. a) Draw a model using two cylinders, three prisms, four cones, one pyramid and one sphere.
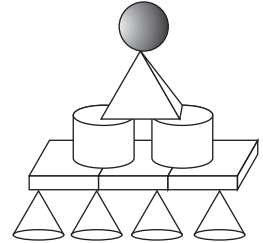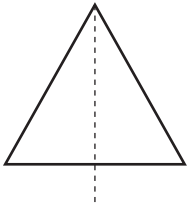
   b) Describe a cylinder.
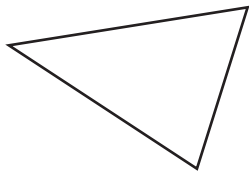
   2 circular bases, similar to a prism

2D Shape

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

18. a) Draw a 2D shape with:
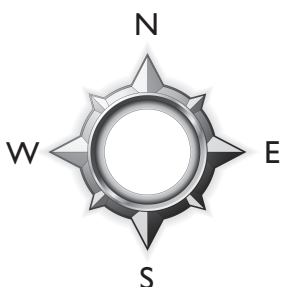
   i) one line of symmetry.

   ii) no lines of symmetry.

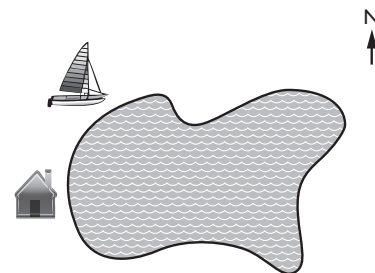   b) A regular hexagon has ___*5*___ lines of symmetry.

Location and Transformation

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

19. a) Fill in the compass points using the symbols for north, south, east and west.

   N

   W   E

   S

b) Draw a house on the west side of this island.

c) The sail boat is ___North___ of the house.

N

Chance

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

20. a) Write 'certain', 'uncertain' or 'impossible' to explain
       each event.

   i)   It will rain tomorrow. ___uncertain___   ii)   Ice will melt in the sun. ___certain___

   iii) A fish lives out of water. ___impossible___

 b) Ty chooses a ball at random.
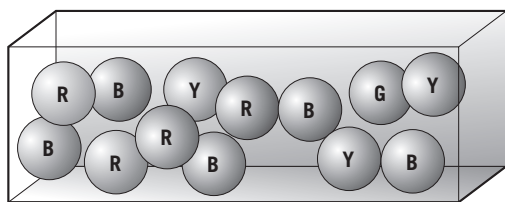
Write three chance questions about Ty's selection.

Chance of selecting a red ball is $\frac{4}{13}$

Chance of selecting a blue ball is $\frac{5}{13}$

Chance of selecting a yellow ball is $\frac{3}{13}$

Data

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

21. What would the missing information in the table and the graph be if the total number of
    children in 3A is 30?

Favourite instrument	Number of students in 3A
Guitar	12
Drums	3
Tuba	5
Flute	10

	Guitar	Drums	Tuba	Flute
12				
11				
10				
9				
8				
7				
6				
5				
4				
3				
2				
1				