Half-yearly assessment

Name: _____

Whole Numbers

1. Write three numbers that are between 197 and 213.

   198 _____ 200 _____ 211 _____

2. Expand these numbers.

   a) 153 is 100 + 50 + 3

   b) 228 is 200 + 20 + 8

   c) 205 is 200 + 0 + 5

3. a) Write all 3-digit numbers that can be made using 4, 3 and 1.

   143, 134, 341, 431, 314, 413

   b) Which number is the largest? 431

4. Order the numbers from smallest to largest.

   a) 165 156 116 161 116, 156, 161, 165

   b) 320 82 203 282 82, 203, 282, 320

Addition and Subtraction

5. a) 23 + 10 = 33 b) 47 – 10 = 37

   c) 58 + 10 = 68 d) 26 + 11 = 37

   e) 64 – 10 = 54 f) 32 + 10 = 42

6. Explain or show the quickest way you know to work out 7 + 68.

$$\begin{array}{r} {\scriptstyle 1} \\ 68 \\ +\ \ 7 \\ \hline 75 \end{array}$$

Students' answers will vary.

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7. Explain or show the quickest way you know to work out

$42 + \underline{\quad 8 \quad} = 50$

$$\begin{array}{r} {}^{4}\cancel{5}\,10 \\ -\ 4\ 2 \\ \hline 0\ 8 \end{array}$$

Students' answers will vary.

Multiplication and Division

8. a) How many 3s in 12? 4 b) How many 2s in 22? 11

c) How many 3s in 30? 10 d) How many 4s in 8? 2

e) How many 3s in 15? 5 f) How many 4s in 36? 9

9. Gems are worth points in a computer game.

 2 points  3 points  5 points  10 points

a) How many points for 5  ? 15

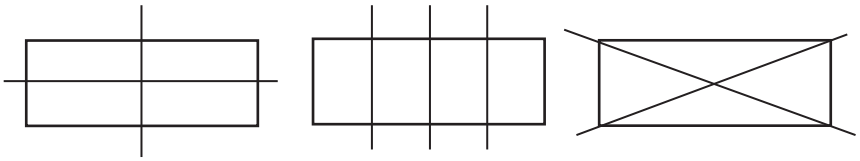
b) How many points for 5  ? 10

c) How many points for 5  ? 25

d) How many points for 5  ? 50

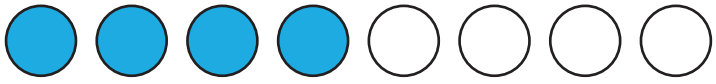
Fractions and Decimals

10. Show three different ways a rectangle can be cut into quarters.



11. a) Half of the balls are blue. Colour them. How many balls are blue?

4



b) One quarter of the triangles are red. Colour them.

How many triangles are red? 2

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Chance

12. Name an event that is:

a) likely to happen tomorrow. The sun will rise

b) unlikely to happen tomorrow. It will snow in Melbourne

Patterns and Algebra

13. Cross out the number that does not belong in each number pattern.

a) 80, 90, 100, ~~101~~, 110, 120

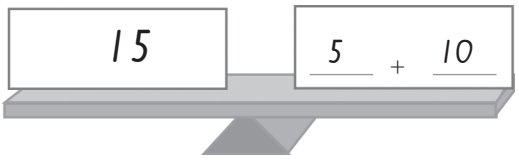
b) 35, 40, 45, 50, ~~54~~, 55, 60

c) 30, 28, 26, 24, ~~23~~, 22, 20

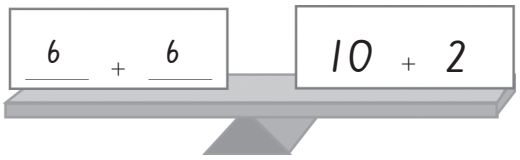
d) 21, ~~23~~, 24, 27, 30, 33, 36

14. Write a number sentence needed to balance each seesaw.

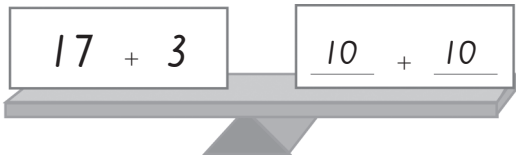
a)



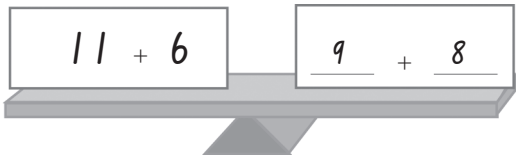
b)



c)



d)



Data

15. a) Fill in the missing information in the table and the graph about the favourite dance style for girls in class 2G.

Hip Hop	𝍸 |	6
Freestyle	𝍸 |	6
Krump	||	2
B-boy	𝍸 ||	7

	1	2	3	4	5	6	7
Hip Hop	■	■	■	■	■	■	
Freestyle	■	■	■	■	■	■	
Krump	■	■					
B-boy	■	■	■	■	■	■	■

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b) Write a question that can be answered using the graph.

What is the most popular dance style?

Length

16. Draw and label an item that is:

a) longer than 1 metre.

a desk

b) shorter than 1 metre.

a pencil

17. Measure the length of each line in centimetres.

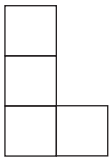
a) _____ 2 cm long b) _____ 5 cm long

Area

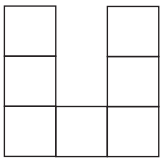
18. Use Base 10 units to measure the area of the rectangle.

6 units

19. What is the area of each shape below?



4 squares



7 squares

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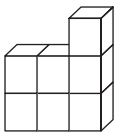
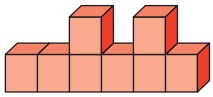
Volume and Capacity

20. a) Count and record the number of blocks used for each model.



7 blocks



8 blocks

b) Colour the model with the greatest volume.

21. Write the numbers 1 to 3 in the boxes to order the piles from smallest to (1) largest (3) volume.

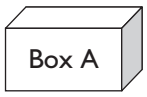
3

2

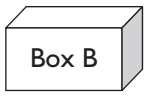
1

Mass

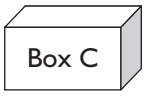
22. The mass of the object hidden in each box is shown below.



6 counters



70 counters



50 counters

a) The lightest object is in Box A.

b) Box B is 20 counters heavier than Box C.

c) The total mass of Box A and Box C is 56 counters.

d) Name an object that could be in Box A. A pencil

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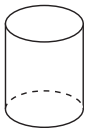
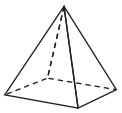
3D Space

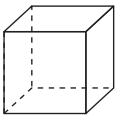
23. Write the name for each 3D object – pyramid, cube or cylinder.



cylinder

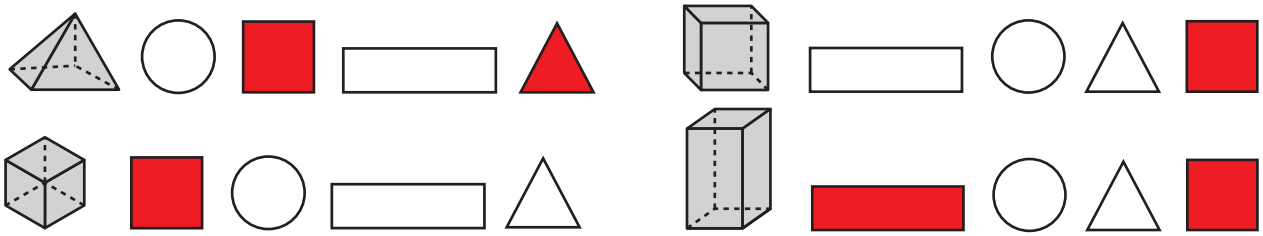


pyramid



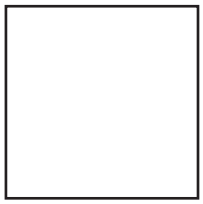
cube

24. Colour the shapes of the faces for each 3D object.

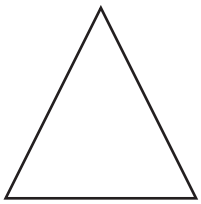


2D Space

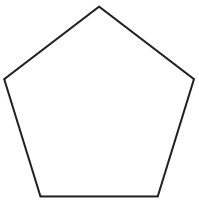
25. Draw each shape and write the number of its sides and corners.



a) square



b) triangle



c) hexagon

4	4
sides	corners

3	3
sides	corners

5	5
sides	corners

Position

26. Draw 3 lollies in the bag on the right and 5 lollies in the bag on the left.

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