

Yearly assessment

Name : _____

Addition and Subtraction

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

1. Keith was making his famous Jungle Juice for a party. Into the bowl he placed 2250 mL of orange juice, 1875 mL of pineapple juice, 1500 mL of ginger ale and a large can of fruit salad.

a) How much Jungle Juice was there in the bowl at the beginning of the party?

5625 mL

b) Keith tested it to ensure it tasted okay by drinking 180 mL. He then filled a glass containing 375 mL for himself, and one containing 220 mL for his wife. How much had he removed from the bowl? 775 mL

c) What amount remained in the bowl for the party guests? 4850 mL

Multiplication and Division

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

2. Identify each of the following as either prime or composite.

a) 64 composite b) 29 prime c) 13 prime

3. List the factors of 100.

1, 2, 4, 5, 10, 20, 25, 50, 100

4. Complete the following.

a) $674 \times 100 =$ 67,400 b) $9023 \times 1000 =$ 9023000
c) $56\,000 \div 100 =$ 560 d) $986\,000 \div 1000 =$ 986

Fractions and Decimals

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

5. Solve the following problems.

a) $1 + \frac{7}{8} =$ $1\frac{7}{8}$ b) $1 + \frac{1}{12} =$ $1\frac{1}{12}$
c) $1 - \frac{1}{6} =$ $\frac{5}{6}$ d) $1 - \frac{2}{3} =$ $\frac{1}{3}$

6. Explain how you can change the fraction $\frac{1}{3}$ into a fraction with denominator 12.

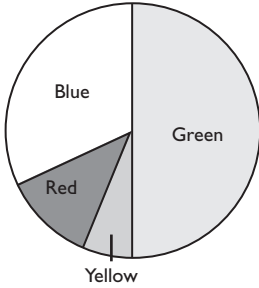
$\frac{1}{3} \times \frac{4}{4} = \frac{4}{12}$

7. a) $\frac{3}{4} + \frac{3}{4} =$ $1\frac{1}{2}$ b) $\frac{7}{8} + \frac{6}{8} =$ $\frac{13}{8} = 1\frac{5}{8}$
c) $\frac{11}{12} - \frac{3}{12} =$ $\frac{8}{12}$ d) $\frac{7}{5} - \frac{4}{5} =$ $\frac{3}{5}$

Chance

Understanding: Limited Basic Sound

8.



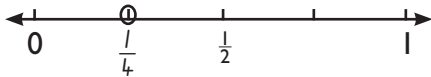
a) Which colour has the least chance of being spun?

Yellow

b) Describe the likelihood that the spinner will land on green.

$\frac{1}{2}$

c) Indicate on the number line below the likelihood that the spinner will NOT land on red.



Patterns and Algebra

Understanding: Limited Basic Sound

9. a) When making pikelets, 2 cups of flour will make 20 pikelets. Use this information to complete the table and graph.

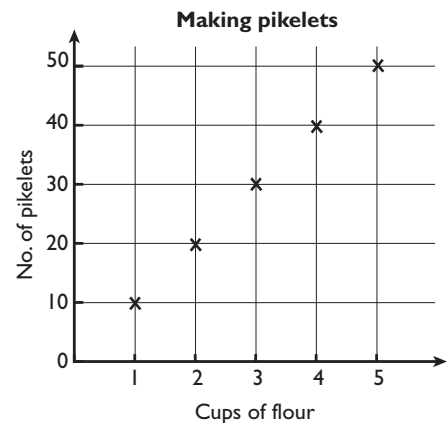
Cups of flour	1	2	3	4
No. of pikelets	10	20	30	40

b) Describe the pattern that links the number of pikelets to the amount of flour that is used.

Cups of flour multiplied by ten = no of pikelets

c) If you used 13 cups of flour, how many pikelets could you make? 130

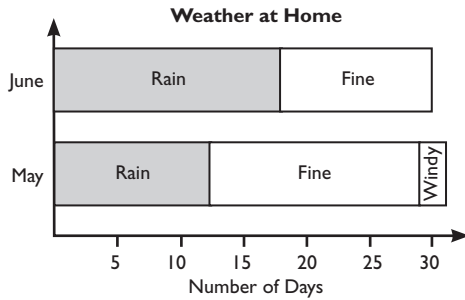
d) If you needed to make 450 pikelets for a morning tea at school, how many cups of flour would you need? 45



Data

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

10. Use the divided bar graph to answer the questions that follow.



a) Which month had more days of rain?

June

b) Were there any windy days during June? *No*

c) Would you expect that the graph for the previous year would be the same or different? Explain.

Different - weather varies

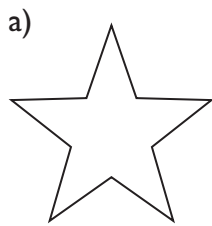
11. Describe one way that a graph can be misleading.

Students' answers will vary.

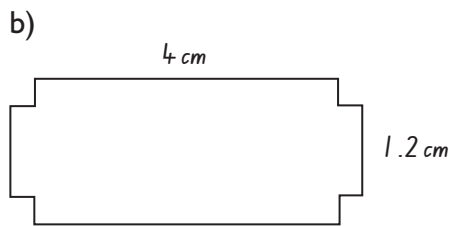
Length

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12. Measure the perimeter of the following shapes and write the answer in the unit indicated.



mm



cm

13. What is the speed shown on the gauge? *63874 Km*

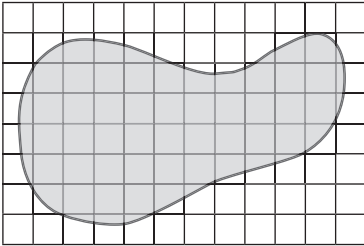


Area

Understanding: Limited Basic Sound

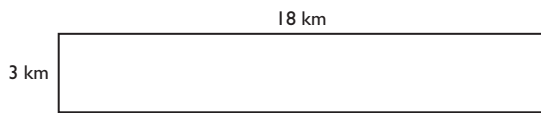
14. Each grid square represents 1 square kilometre. What is the approximate area of the shape?

48



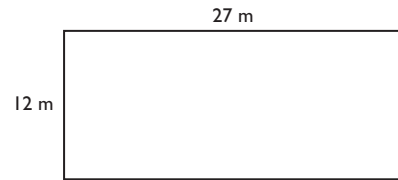
15. Calculate the area of these rectangles, showing how you did it in the space provided.

a)



$$A = 18 \times 3 = 54 \text{ km}^2$$

b)



$$A = 27 \times 12 = 324 \text{ m}^2$$

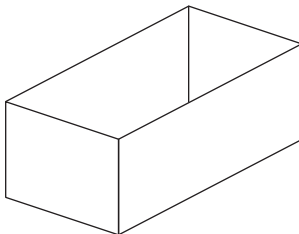
Volume and Capacity

Understanding: Limited Basic Sound

16. Circle the objects that have a volume/capacity larger than 1 cubic metre.

refrigerator kitchen sink pencil case family car esky garden shed

17. Describe how you can determine the cubic capacity of the container below.



$$V = l \times w \times b$$

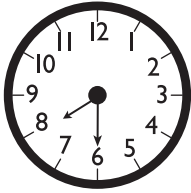
Students' answers may include filling the container with base 10 materials or other materials with known capabilities and calculating the capacity this way.

Time

Understanding: Limited Basic Sound

18. These clocks show the start and finish times for Stephen's marathon race. How long did it take Stephen to complete the marathon? 5 hrs 45 minutes

START



FINISH



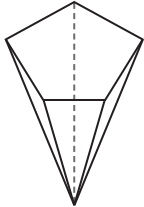
19. If it is 11:30 a.m. in Perth, what time is it in:

- a) Adelaide? 15:00 hrs
- b) Melbourne? 14:30 hrs

Shape

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20.



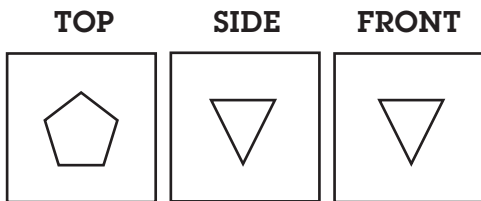
a) Name the solid shown.

pentagonal pyramid

b) Explain why you have named it this way.

pentagon base, five triangular faces

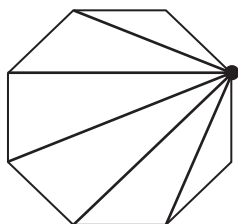
c) In the space below, draw its top, side and front views.



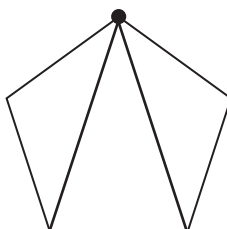
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21. Draw the diagonals from the corners indicated by a dot.

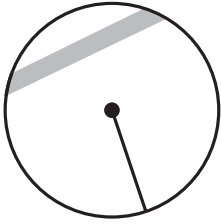
a)



b)



22. Use the circle below to answer these questions.

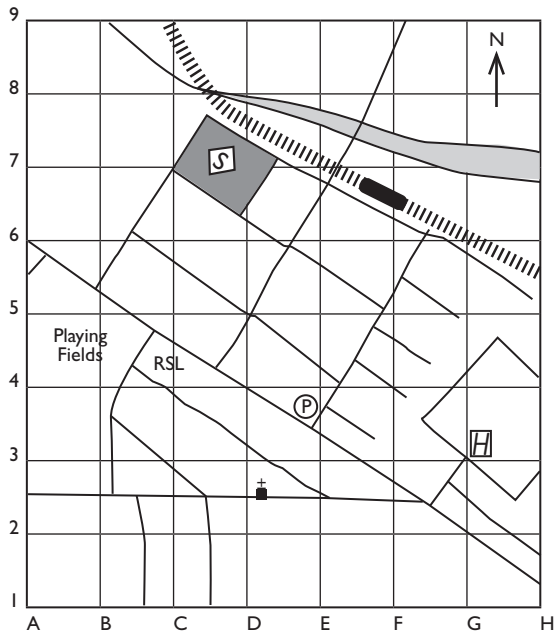


- a) Draw the radius of the circle in red.
 b) Shade a chord in blue.

Location

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

23. Use this map to answer the following questions.



Key:

Church	Railway
Post office	Railway station
School	Hospital

- a) In which grid square is:
 i. the church? D2
 ii. the post office? D3
- b) Place the symbol for a hospital into grid square G3.
- c) What is located west of the railway station?

school