

Yearly assessment

Name : _____

Whole Numbers

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

1. Use the information in the table on the right to answer the following questions.

Place	Coldest recorded temperature
Australia	-23°C
Sweden	-53°C
Canada	-63°C
The Philippines	2°C
Antarctica	-89°C

- a) Which place recorded the coldest temperature? Antarctica
- b) Which place recorded the warmest coldest temperature? The Philippines
- c) Is the coldest temperature recorded in Sweden higher or lower than that recorded in Canada?
higher
- d) What's the difference between the coldest temperatures recorded in Sweden and Australia?
 30°
- e) What's the difference between the coldest temperatures of the most cold and least cold places?
 91°

Addition and Subtraction

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

4. The odometer on Mario's car read 14 576 km when he purchased it.
- a) One year later, it read 17 814 km. How far did Mario travel that year? 3238 km
- b) Mario then did a trip from Sydney to Alice Springs and back again – a total of 5540 km. What does Mario's odometer read when he returns? 23354 km
- c) How many kilometres does Mario need to drive for his odometer to reach 25 000 km?
1646 km

Multiplication and Division

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

5. To purchase a lounge through a finance company, you pay \$99 a month for 36 months. How much do you pay for the lounge? \$3564
6. It takes 135 cm of tulle to make a tutu. If there are 32 dancers in the performance, how many centimetres of tulle is needed? 4320 cm
7. Complete the following problems.
- a) $3 + 5 \times 8 =$ 43
- b) $(15 + 29) \div 4 =$ 11

Fractions and Decimals

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

8. Solve these problems.

a) $3.2 \times 9 = \underline{\quad 28.8 \quad}$

b) $50.45 \div 5 = \underline{\quad 10.09 \quad}$

c) $\frac{3}{8} + \frac{7}{8} = \underline{\frac{10}{8} = 1\frac{2}{8} = 1\frac{1}{4}}$

d) $\frac{7}{12} + \frac{11}{12} = \underline{\frac{18}{12} = 1\frac{1}{2}}$

9. Explain how you can add together fractions that do not have the same denominator, such as $\frac{2}{3} + \frac{7}{12}$.

$$\frac{2 \times 4}{3 \times 4} = \frac{8}{12} \text{ then } \frac{8}{12} + \frac{7}{12} = \frac{15}{12}$$

10. 20% of the students in your school play recreational sport on a Saturday. If there are 386 students, how many play sport? Round your answer to the nearest person. 77

Chance

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11. A bag contains 13 forks, 5 spoons, 3 teaspoons and 9 knives.

a) What is the sample space for selecting a piece of cutlery from the drawer?

30

b) What is the probability of selecting:

• a knife? $\frac{9}{30} = \frac{3}{10}$

• a pair of tongs? 0

• a spoon? $\frac{5}{30} = \frac{1}{6}$

Patterns and Algebra

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

12. It is thought that the human brain holds at least 4 terabytes of information.

a) Use this information to complete the table below.

Number of people	1	2	3	4
Amount of information	4	8	12	16

b) Describe the pattern that links the number of people to the amount of information in their brains.

Number of people multiplied by four = Amount of information

c) How many terabytes of information would 15 people have? 60

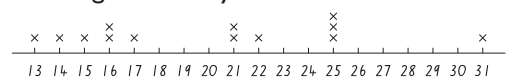
Data

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13. Max recorded how long (in minutes) he spends on the bus each morning on his way to school.

His results are: 15, 21, 25, 22, 16, 25, 13, 17, 16, 25, 31, 14, 21

a) Construct a dot plot of this data.

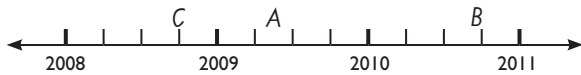


b) What is the median time it takes Max to get to school each morning? 20 minutes

Time

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

18. Place the letter of each event below onto the timeline at the appropriate place.



A: May 2009 – holiday to New Zealand

B: August 2010 – holiday to Fiji

C: September 2008 – holiday to Bali

19. If it is summer and daylight saving is in effect, when it is 9:30 p.m. in Sydney, what time is it in:

a) Adelaide? 9.00 pm

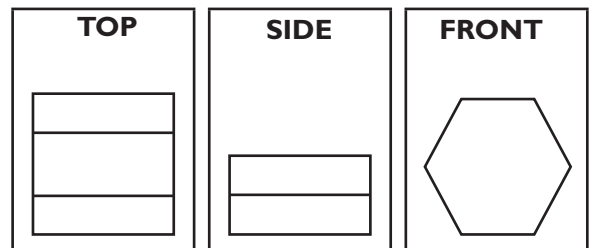
b) Darwin? 8.00 pm

Shape

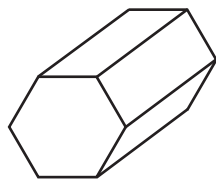
Understanding: **Limited** **Basic** **Sound**

20. a) What is the name of the solid shown in this drawing?

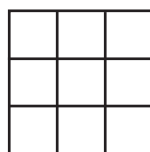
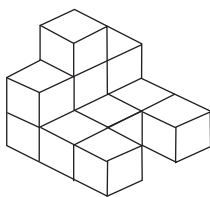
hexagonal prism



b) Draw this solid, showing perspective.



21. Draw the top view of this block tower.



Transformation

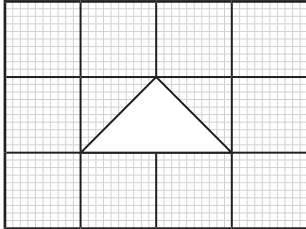
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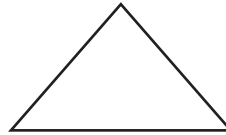
22. Draw this shape in the scale indicated.



a) Scale $\frac{1}{2}$



b) Scale 2



Financial Maths and Percentages

Understanding:

Limited

Basic

Sound

23. Anita has been saving her money to spend at the winter sales. She finds the following items reduced by the percentages indicated. Find the discount that Maya will receive on each item. If needed, round your answers to the nearest cent.

<p>Stereo system \$283.00 15% discount _____ \$42.45</p>	<p>Road bike \$929.00 20% discount _____ \$185.80</p>	<p>Computer game \$49.95 20% discount _____ \$9.99</p>
<p>Socks \$25.00 10% discount _____ \$2.50</p>	<p>Tablet computer \$430.00 50% discount _____ \$215</p>	<p>Tennis racquet \$115.00 10% discount _____ \$11.50</p>

Geometric Reasoning

Understanding:

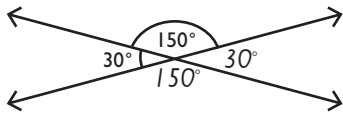
Limited

Basic

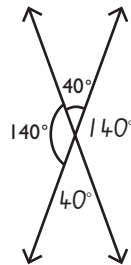
Sound

24. Solve and write in the missing angles for each of these vertically opposite angle pairs. Do not use a protractor.

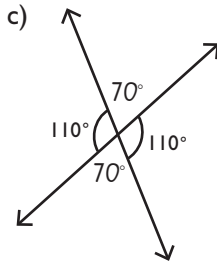
a)



b)



c)



Location

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Sound

25. Look at the map below and answer the questions.



a) In which grid square is Dubai? F4

b) What cities are in grid square B3?
Jiddah, Mecca

c) How far is it from Baghdad to Aden? 2216 km