

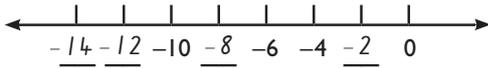
Half-yearly assessment

Name : _____

Whole Numbers

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

1. Complete this number line.



2. Circle the smaller number in each pair.
a) -3 or (-7) b) (-15) or -9
3. Rewrite these numbers in order from largest to smallest: $-15, -3, -1, -8, -30$
 $-1, -3, -8, -15, -30$
-

Addition and Subtraction

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

4. Solve the following additions, writing how you solved them in the space provided.

a) $834 + 634$

1468

b) $2903 + 8239$

11142

5. Write a subtraction problem using the numbers 6250 and 3952. Then solve your problem.

Students' answers will vary.

2298

Multiplication and Division

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

6. Complete these divisions, writing any remainders in a fraction form.

a) $523 \div 6$

$87\frac{1}{6}$

b) $7235 \div 8$

$904\frac{3}{8}$

7. Maisie earns \$4359 each month. How much does she make in 6 months?

$\$ 26154.00$

Fractions and Decimals

Understanding: Limited Basic Sound

8. Change these improper fractions to mixed numbers.
 a) $\frac{17}{3} = 5\frac{2}{3}$ b) $\frac{37}{8} = 4\frac{5}{8}$
9. Change these mixed numbers to improper fractions.
 a) $2\frac{4}{5} = \frac{14}{5}$ b) $4\frac{7}{12} = \frac{55}{12}$
10. George has \$1488 saved. He spends $\frac{1}{6}$ of this when he is on holiday. How much does he spend?
 $\$248$
-
11. Place these mixed numbers in ascending order: $2\frac{2}{3}$, $2\frac{5}{6}$, $2\frac{5}{12}$, $2\frac{3}{4}$.
 $2\frac{5}{12}$, $2\frac{2}{3}$, $2\frac{3}{4}$, $2\frac{5}{6}$
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Patterns and Algebra

Understanding: Limited Basic Sound

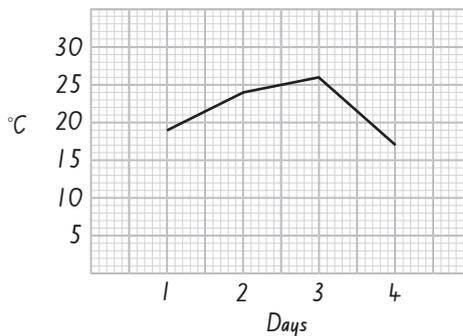
12. South American soldier ants march 1.5 kilometres in 3 hours.
- a) Use this information to complete the table.
- | | | | | |
|-------------------------|-----|---|-----|---|
| Time (hrs) | 1 | 2 | 3 | 4 |
| Distance travelled (km) | 0.5 | 1 | 1.5 | 2 |
- b) How long does it take the soldier ants to travel 5 kilometres?
 10 hrs
-
- c) How far would the ants have travelled if they moved for a total of 10 hours?
 5 km
-

Data

Understanding: Limited Basic Sound

13. Use the following information to construct a line graph in the space provided.

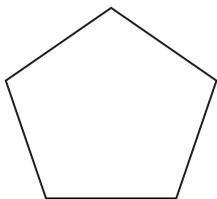
Maximum temperatures			
Day	°C	Day	°C
1	19	2	24
3	26	4	17



Length

Understanding: Limited Basic Sound

14. Measure the perimeter of this shape. Give your answer as a value in centimetres.



$$1.7 \times 5 = 8.5 \text{ cm}$$

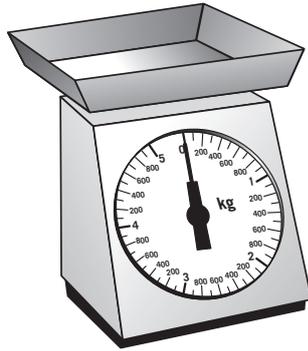
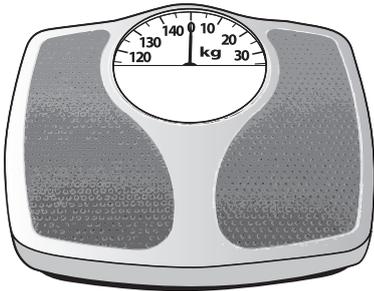
Mass

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

20. A container has a mass of 0.253 g. Ten paperclips are placed into the container. It then has a mass of 0.732 g. What is the mass of one paperclip?

0.0479 g

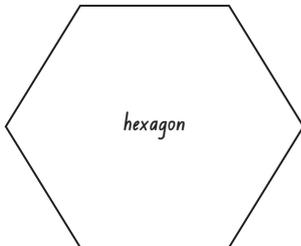
21. Circle the scale that would have been the most likely one used in Question 20.



Shape

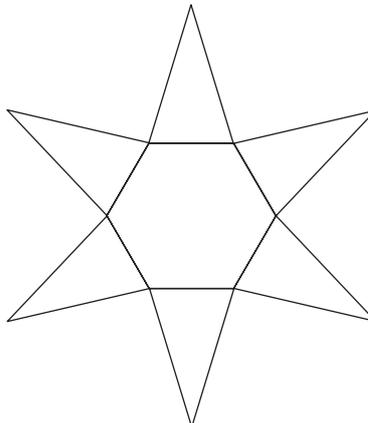
Understanding: **Limited** **Basic** **Sound**

22. Name the solid that has the cross-section shown below. Give a reason for your choice.



Hexagonal pyramid. The cross-section slices are all hexagons but they are getting smaller as the pyramid comes to a point.

23. Draw a net for this solid.

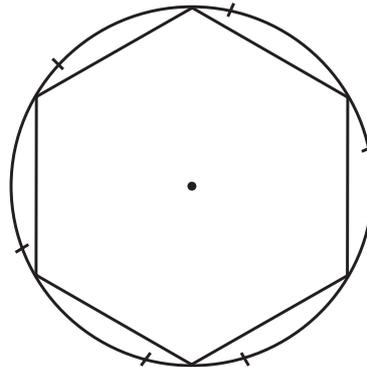
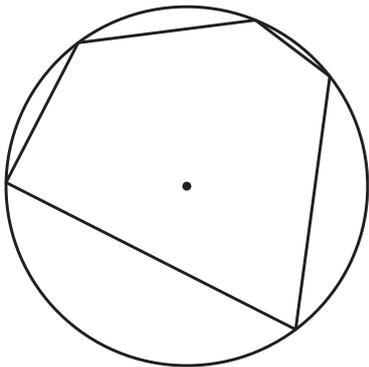


Geometric Reasoning

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

24. Use the circles provided and a protractor to construct:

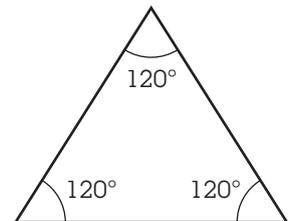
- a) an irregular pentagon
- b) a regular hexagon.



25. Describe how you can construct an equilateral triangle.

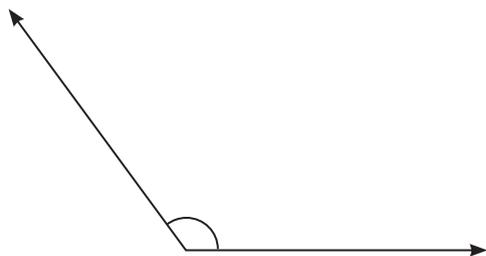
Use a diagram to help in your explanation.

Draw a horizontal line of any length with a ruler. The angles of an equilateral triangle are all the same so divide 360° by 3 to find how big they should be. $360 \div 3 = 120^\circ$. Measure a 120° angle using a protractor. At each end of the line draw the arms of the two angles the same length as the horizontal line. They should meet at the top as a third 120° angle.

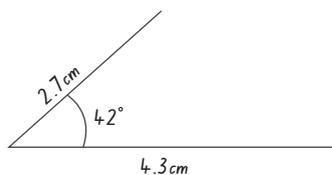


Understanding: **Limited** **Basic** **Sound**

26. Measure the following angle. _____ 130° _____



27. Construct an angle of 42° . Make the arms of this angle 2.7 cm and 4.3 cm in length.



Location

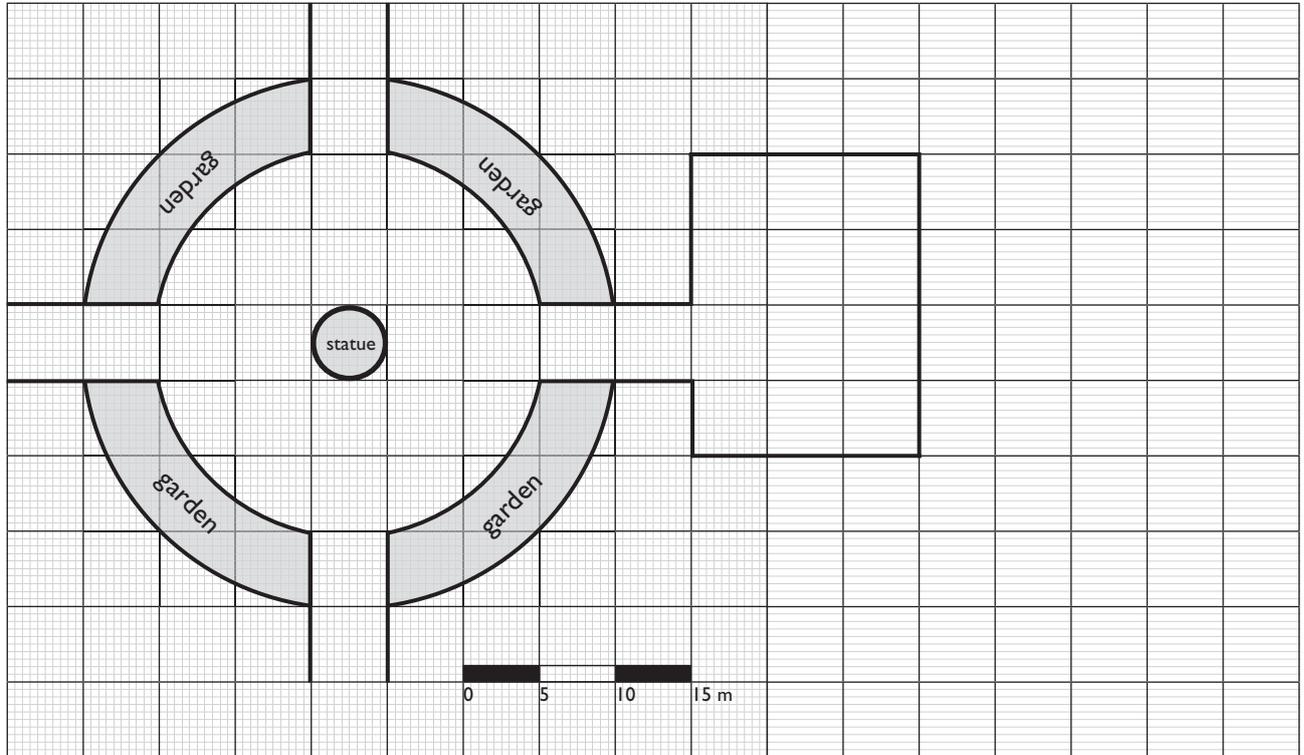
Understanding:

Limited

Basic

Sound

28. Use this scale drawing to answer the questions below.



- How wide are the garden beds in this formal garden? 35 m
- The pathway on the right passes into a rectangular space that measures 20 m by 15 m. Draw this space on the diagram.