1. At 6 am the temperature in Greenville was 11.9°C.
   At midday it was 9.8°C warmer.
   At 6 pm it was 10.9°C cooler than at midday.
   What was the temperature at 6 pm?
   
   - 8.8°C
   - 10.8°C
   - 13.0°C
   - 32.6°C

2. If $w = 6$, what is the value of $2w$?
   
   - 12
   - 26
   - 36
   - 62

3. A shop sells new and used computers.
   The graph shows the price of 2 similar computers and their age in years.

   ![Graph with points A and B]

   Which one of these statements is true?
   
   - Computer B is older and less expensive than computer A.
   - Computer A is newer and less expensive than computer B.
   - Computer A is older and more expensive than computer B.
   - Computer B is newer and more expensive than computer A.
This table summarises the time Mick spent walking his dog over five days.

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>45 minutes</td>
</tr>
<tr>
<td>Tuesday</td>
<td>50 minutes</td>
</tr>
<tr>
<td>Wednesday</td>
<td>1 hour</td>
</tr>
<tr>
<td>Thursday</td>
<td>62 minutes</td>
</tr>
<tr>
<td>Friday</td>
<td>43 minutes</td>
</tr>
</tbody>
</table>

What was the average (mean) time for these walks?

- 40 minutes
- 52 minutes
- 65 minutes
- 260 minutes

Which number is exactly halfway between $1\frac{1}{4}$ and $3\frac{3}{4}$?

- $1\frac{1}{2}$
- 2
- $2\frac{1}{2}$
- $2\frac{3}{4}$

This is a triangular prism.

Which diagram is the net of a triangular prism?
7. Which dotted line is a line of symmetry?

8. If \( x = 3 \), what is the value of \( \frac{4x}{2x - 2} \)?

9. There were only 14 students in Rina’s class on Wednesday. The other 11 were absent.
What percentage of Rina’s class was absent?

11% 44% 55% 56%

10. Here is a map of Grit Island.

Which one of these points is on Grit Island?

(6, 2\( \frac{1}{2} \)) (1, 6\( \frac{1}{2} \)) (4\( \frac{1}{2} \), 1) (3\( \frac{1}{2} \), 5)
11 Lyn uses a photocopier to enlarge this picture.

![Image](image1.png)

The enlarged picture is 3 times as long and 3 times as wide as the original.

The area of the enlarged picture is

- 3 times the area of the original.
- 6 times the area of the original.
- 9 times the area of the original.
- 24 times the area of the original.

12 Here is a table of values for $x$ and $y$.

<table>
<thead>
<tr>
<th>$x$</th>
<th>0</th>
<th>0.5</th>
<th>1</th>
<th>1.5</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>$y$</td>
<td>0</td>
<td>0.5</td>
<td>2</td>
<td>4.5</td>
<td>8</td>
</tr>
</tbody>
</table>

Which of these is a correct rule for $y$ in terms of $x$?

- $y = x$
- $y = 2x$
- $y = 3x$
- $y = 2x^2$

13 In the diagram, $ACD$ is a straight line.

![Image](image2.png)

What is the size of angle $BCE$?

- $20^\circ$
- $48^\circ$
- $75^\circ$
- $85^\circ$
Mira made this table showing population data over two years for the six Australian states. Some data for South Australia is not shown.

<table>
<thead>
<tr>
<th>Population of Australian States</th>
<th>2002 Population</th>
<th>2003 Population</th>
<th>Percentage increase from previous year</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSW</td>
<td>6 662 212</td>
<td>6 716 277</td>
<td>0.8%</td>
</tr>
<tr>
<td>VIC</td>
<td>4 884 952</td>
<td>4 947 985</td>
<td>1.3%</td>
</tr>
<tr>
<td>QLD</td>
<td>3 754 154</td>
<td>3 840 111</td>
<td>2.3%</td>
</tr>
<tr>
<td>SA</td>
<td>1 522 475</td>
<td>?</td>
<td>0.6%</td>
</tr>
<tr>
<td>WA</td>
<td>1 936 902</td>
<td>1 969 046</td>
<td>1.7%</td>
</tr>
<tr>
<td>TAS</td>
<td>474 305</td>
<td>479 958</td>
<td>1.2%</td>
</tr>
</tbody>
</table>

What was the population of South Australia (SA) closest to in 2003?

- 2 537 500
- 2 436 000
- 1 613 800
- 1 531 600

The diameter of a circular table top is 2.6 metres.
What is its circumference to the nearest metre?

- 4 m
- 5 m
- 8 m
- 16 m

An equilateral triangle, a square and a regular pentagon meet at point $B$.

![Diagram](image.png)

What is the size of the obtuse angle $CBA$?

- $102^\circ$
- $108^\circ$
- $112^\circ$
- $120^\circ$
Here is a plan of Jim’s backyard.

The area of the square garden in the middle is 16 m².

What is the area of the paving in Jim’s backyard?

- 20 m²
- 32 m²
- 128 m²
- 144 m²

A rule for \( y \) in terms of \( x \) is \( y = 6 - 4x \).

When \( x = 3.75 \) the value of \( y \) is

- –9
- –1.75
- 7.5
- 9

How many hours and minutes are between 2:27 am and 2:16 pm on the same day?

- 11 hours and 11 minutes
- 11 hours and 49 minutes
- 12 hours and 11 minutes
- 12 hours and 49 minutes

Which one of these is a right-angled isosceles triangle?
21. A stack of 4 cups is 20 cm tall. A stack of 6 cups is 26 cm tall.

Which rule can be used to work out the height, in centimetres, of a stack of \( n \) cups?

- \( 6n - 10 \)
- \( 6n - 4 \)
- \( 3n + 11 \)
- \( 3n + 8 \)

Shade one bubble.

22. Gina needs to travel by train for 22 days during May. A daily ticket will cost her $6.60 and a monthly ticket will cost her $105.60.

What is her average daily saving if Gina buys a monthly ticket?

- $1.80
- $4.80
- $39.60
- $99.00

23. Kim uses this rule to work out the next number in a pattern.

Multiply by 7 and then add 1.

The first three numbers of his pattern are: 8, 57, 400, ...

What is the fifth number in his pattern? [ ]

24. The amount of energy, \( E \) units, used by an air-conditioner for temperatures in the range 20°C to 30°C is given by the rule

\[ E = 2T^2 \]

where \( T \) is the temperature in °C.

How many units of energy are used when the temperature is 25°C? [ ] units

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25 Joe is 1.6 m tall. His shadow is 2 m long when he stands 3 m from the base of a floodlight.

![Diagram showing a floodlight, a person, and their shadow.]

What is the height of the floodlight?

- 2.4 m
- 2.6 m
- 4.0 m
- 4.2 m

26 This is a map of mountains in a national park.

![Map of mountains with a grid and key.]

Anna is at the Lookout facing South. She turns 225° in a clockwise direction.

Which mountain is Anna now facing?

- Mt Helen
- Mt Blanc
- Mt Flinders
- Mt Hope
27 Sue drew this plan of a square block of land. All measurements are given in metres.

The area of the lawn in square metres is

- $x^2 - 6$
- $x^2 + 6$
- $2x^2 - 5$
- $2x^2 - 6$

Shade one bubble.

28 There are 420 girls and boys at a concert. The ratio of girls to boys at the concert is 3 to 7.

How many girls are at the concert?

- 126
- 140
- 180
- 294

29 This is a diagram of the course for a 10 km road race. The runners start and finish at the Gate.

What is the distance between the Gate and the Junction?  km
This solid triangular prism needs all its faces painted. The area of each triangular face is 3 m$^2$.

What is the total area to be painted? $m^2$

The cost in dollars to print $n$ books is $500 + 10n$.

How many books are printed for a cost of $15000$? books

This list shows the number of films that nine members of a film club watched in April.

<table>
<thead>
<tr>
<th>Number of films watched</th>
</tr>
</thead>
<tbody>
<tr>
<td>0, 1, 2, 2, 3, 4, 5, 5, 5</td>
</tr>
</tbody>
</table>

Which of the following is true for this data?

- mean > median = mode
- mean < median < mode
- mean = median = mode
- mean = median < mode

END OF TEST
P1 How many dolphins are shown on this card?

3 4 5 6

Shade one bubble.

P2 $6 + 4 =$

Write your answer in the box.

P3 What is the total cost of these two stamps?

$1.50 $2.00

$