This page is meant to be blank.
P1

50, 100, 150, 200, 250, ?

Which number comes next in this sequence?

251 260 300 350

P2

Jim gets paid $10 per hour.
He worked for 5 hours.

How much did Jim earn?

$ 

P3

$1 = 100 cents

Complete the table.

<table>
<thead>
<tr>
<th>$</th>
<th>cents</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>100</td>
</tr>
<tr>
<td>2</td>
<td>200</td>
</tr>
<tr>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

P4

Write a fraction equivalent to one half.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
1. Trevor drew this shape on a grid.

\[ \begin{array}{|c|c|c|c|}
\hline
& & & \\
\hline
& & & \\
\hline
\end{array} \]

He then doubled the height and width of the shape.

Which drawing shows this?

- [ ]
- [ ]
- [ ]
- [ ]

2. \( \square = 2 \)
\( \triangle = 3 \)
\( \bigcirc + \square = \triangle + \triangle \)

Which number does \( \bigcirc \) equal?

- [2]
- [3]
- [4]
- [6]

3. In 1894, women were granted the right to vote in South Australia.

By 2009, women in South Australia will have been able to vote for

- [113 years.]
- [115 years.]
- [125 years.]
- [215 years.]

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Edward travelled 110 kilometres in 2 hours.
What was his average speed in kilometres per hour?

50  55  70  220

Two places are 4.7 cm apart on a map.
On the map 1 cm represents 5 km.
What is the actual distance between the two places?

1.06 km  9.4 km  23.5 km  47 km

The area of Australia is 7,686,850 square kilometres.
What is this area rounded to the nearest thousand square kilometres?

7,000,000  7,600,000  7,686,000  7,687,000

The arrow points to a position on the number line.
What number is at this position?

Sean wrote a number on a piece of paper.
If he multiplied his number by 5 and then divided by 2, the answer would be 30.
What was Sean’s number?
9. A farm has 4 paddocks.
Which paddock has the largest area?

- 150m
- 170m
- 125m
- 200m

10. A water tank has a capacity of 6.25 kilolitres.
How many litres does the water tank hold when it is full?
- 625
- 6025
- 6250
- 62500

11. Four families flew to Australia.
The airline allows each person to have 22kg of luggage.

<table>
<thead>
<tr>
<th>Family name</th>
<th>Number of people</th>
<th>Mass of family luggage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nguyen</td>
<td>3</td>
<td>61 kg</td>
</tr>
<tr>
<td>Boyd</td>
<td>4</td>
<td>87 kg</td>
</tr>
<tr>
<td>Clarke</td>
<td>5</td>
<td>111 kg</td>
</tr>
<tr>
<td>Agostini</td>
<td>6</td>
<td>131 kg</td>
</tr>
</tbody>
</table>

Which family had more than 22kg of luggage per person?
- Nguyen
- Boyd
- Clarke
- Agostini
12. What number will make this number sentence true?

\[ 4.52 + 3.68 = \text{___} + 3.70 \]

13. What is the size of angle \( ABC \)?

\[ \text{___} ^\circ \]

14. Tara is travelling along Bellwood Avenue towards Dominion Road.

What direction is Tara travelling?

- North-East
- North-West
- South-East
- South-West
15. Sam is building a wooden fence that is 4.8 metres long. He is using planks that are all 0.12 metres wide. There are no gaps between the planks.

How should Sam calculate how many planks he will need altogether?

- $4.8 \div 0.12$
- $0.12 \div 4.8$
- $4.8 \times 0.12$
- $4.8 - 0.12$

16. $45 \times \bullet = 18$

What is the value of $\bullet$?

- $\frac{2}{5}$
- $\frac{3}{5}$
- $\frac{5}{2}$
- $\frac{5}{3}$

17. Alex bought 3 pieces of fish and a $2 bag of chips. The cost was $11.90.

What would 2 pieces of fish and a $1 bag of chips cost?

- $9.90$
- $8.90$
- $8.60$
- $7.60$
18. Zoe bought a bike on sale at 15% off the original price. The original price was $420.

How much did Zoe pay for the bike?

$63  $357  $378  $405

19. A vase has 18 flowers in it. 12 flowers are blue.

What fraction of the flowers are blue?

\[
\frac{18}{12}, \quad \frac{6}{12}, \quad \frac{3}{4}, \quad \frac{2}{3}
\]

20. Harry sets his watch and his alarm clock to different times.

8:10

Watch  Alarm clock

When his alarm clock shows 11:50, what time does his watch show?

11:55  10:50  12:20
21 The DVD player shows the time of day as 01:43. The movie still has 53 minutes to run.

What time will the DVD player show at the end of the movie?

22 This calculation gives the average speed (kilometres per hour) of a rocket over a small time interval.

\[
\frac{62.735 - 6.855}{0.04}
\]

What is the average speed of the rocket?

kilometres per hour

23 The diameter of a $2 coin is about 2 cm.

About how much would a 1 km line of $2 coins be worth?

$1000  $5000  $20000  $100000

Shade one bubble.
24 This hexagon pattern is made with sticks.

<table>
<thead>
<tr>
<th>Hexagons</th>
<th>Number of hexagons</th>
<th>Number of sticks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>?</td>
</tr>
</tbody>
</table>

How many sticks are needed to make 10 of these hexagons?

51 53 55 60

Shade one bubble. Write your answer in the box.

25 The mean (average) of five numbers is 34.
One more number is added and the mean becomes 35.
The number added is

34 35 40 69

26 Emma used identical cubes to build a rectangular prism.
There were 12 cubes in its base.
She used 60 cubes altogether.

Which of these could be the dimensions of Emma’s prism?

10 × 1 × 6 2 × 6 × 10 4 × 3 × 5 3 × 4 × 6

27 A rule to calculate the amount of medicine (mL) a child needs is:

Child amount = \( \frac{Adult\ amount \times Age\ of\ child}{Age\ of\ child + 12} \)

Use this rule to complete the table.

<table>
<thead>
<tr>
<th>Adult amount (mL)</th>
<th>Age of child (years)</th>
<th>Child amount (mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>
28 A triangle is divided into 2 parts by a straight line. The angles are then labelled.

\[
\begin{align*}
&\quad a^\circ \\
&\quad b^\circ \\
&\quad c^\circ \\
&\quad d^\circ \\
&\quad e^\circ \\
&\quad f^\circ \\
&\quad g^\circ \\
\end{align*}
\]

Which statement is true about the sum of angles?

- \(a + b + c = 180\)
- \(c + d + e + f = 360\)
- \(a + b + g = 360\)
- \(a + g + f + e = 180\)

29 This plan shows 3 blocks of land. Their areas are measured in acres.

\[
\begin{align*}
&\text{2} \frac{3}{4} \text{ acres} \\
&1 \frac{1}{4} \text{ acres} \\
&\frac{3}{4} \text{ acre} \\
\end{align*}
\]

1 hectare = 2.47 acres

The total area of the 3 blocks in hectares is closest to

- 1.82
- 1.92
- 4.75
- 11.73
30 This pyramid has a square base.

The area of the square base is 52 900 m².

What is the length (m) of one side of the base? m

31 Carlos has 3 times as many orange trees as lemon trees. Altogether he has 76 trees.

How many orange trees does he have?

32 Sue draws a polygon. It has a certain number of 120° angles and the same number of 150° angles. It has no other angles.

The polygon is

- a pentagon.
- a hexagon.
- an octagon.
- a decagon.

END OF TEST