1. This map shows the position of some of the buildings in the town of Bendy.

Which building is West of the Windmill and North of the Barn?

- Silo
- Café
- Garage
- Water Tower

2. Which time is the same as the time shown on this digital clock?

- 2:30 am
- 2:30 pm
- 4:30 am
- 4:30 pm

3. Another way of writing $6^2$ is

- $6 \times 2$
- $6 \times 6$
- $6 + 6$
- $2 \times 2 \times 2 \times 2 \times 2 \times 2$

4. A square-based pyramid and a cube have been glued together.

How many faces does the new object have?

- 4
- 8
- 9
- 11
5 Jen is making this brick pattern.

This table shows the number of bricks she needs for each shape in her pattern.

<table>
<thead>
<tr>
<th>Shape</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of bricks</td>
<td>1</td>
<td>4</td>
<td>9</td>
<td>16</td>
<td>?</td>
</tr>
</tbody>
</table>

How many bricks are needed for Shape 5?

- 24
- 25
- 29
- 30

6 Which dotted line is a line of symmetry?

- ⬇️
- ⬆️
- ⬤
- ⬊

7 What is $10 as a percentage of $40?

- 4%
- 10%
- 25%
- 40%

8 Lee takes one ball out of his bucket without looking.
It is very likely, but not certain, that he will get a black ball.

Which is Lee’s bucket?

- 🔴
- 🔴
- 🔴
- 🔴
This graph shows the UV index for the town of Ascot during one day.

When was the UV index always in the low range?
- between 8 am and 6 pm
- before 10 am and after 4 pm
- before 10 am only
- after 4 pm only

What is the missing number?

\[ 4 \times \boxed{} = 8 \times 3 \]

What is the best way to estimate the total cost of these three objects?
- $40 + $20 + $90
- $40 + $20 + $100
- $40 + $30 + $90
- $40 + $30 + $100
12. A computer chip has dimensions 8 mm × 8 mm. A scale drawing is shown below.

What scale is used in the drawing?
- 1 cm represents 5 mm
- 1 cm represents 2 mm
- 2 cm represents 1 mm
- 5 cm represents 1 mm

13. Which number is greater than 0.08?
- 0.1
- 0.009
- 0.07
- 0.0089

14. What is the perimeter of this shape?
- 34 cm
- 36 cm
- 46 cm
- 74 cm
50 marbles in a bag. Ten marbles are red, the others are black. Emma picks a marble from the bag without looking.

What is the chance of her picking a **red** marble?

1 in 10 2 in 10 4 in 10 5 in 10

17 Five students compared their heights. This diagram shows their results.

Which student is the tallest?

Anna  Belle  Con  David  Eva

$\frac{1}{2}$ 4 5 20

How many cups of sugar are needed for 40 pancakes?

John is using this pancake recipe.

**Pancake recipe**

*Makes 8 pancakes*

<table>
<thead>
<tr>
<th>Ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 cup flour</td>
</tr>
<tr>
<td>2 eggs</td>
</tr>
<tr>
<td>1 cup milk</td>
</tr>
<tr>
<td>$\frac{1}{2}$ cup sugar</td>
</tr>
<tr>
<td>20g butter</td>
</tr>
</tbody>
</table>

© MCEETYA 2008
This is a movie program.

<table>
<thead>
<tr>
<th>Movie</th>
<th>Start time</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue Sky</td>
<td>10:00 am, 12:30 pm, 3:30 pm</td>
<td>1 hour 37 mins</td>
</tr>
<tr>
<td>Fuzzy Dog</td>
<td>3:00 pm, 7:00 pm</td>
<td>2 hours</td>
</tr>
<tr>
<td>The King</td>
<td>11:00 am, 2:15 pm, 6:00 pm</td>
<td>1 hour 40 mins</td>
</tr>
<tr>
<td>Kids at School</td>
<td>2:05 pm, 5:00 pm</td>
<td>2 hours 30 mins</td>
</tr>
</tbody>
</table>

Gina arrives at the movie theatre at 2:00 pm. Her mother will pick her up at 4:00 pm.
Which movie could Gina watch from start to finish?

Blue Sky [ ]
Fuzzy Dog [ ]
The King [ ]
Kids at School [ ]

Which fraction has the same value as $2 \frac{3}{4}$?

- $\frac{8}{4}$
- $\frac{9}{4}$
- $\frac{11}{4}$
- $\frac{14}{4}$

Here is a standard die.
The sum of the dots on opposite faces is 7.
Which is the net of this die?

- 
- 
- 
- 

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What is the size of the angle in the shaded triangle marked by the arrow?

degrees

This table shows the results of a survey on mobile phone bills.

<table>
<thead>
<tr>
<th>Age</th>
<th>$20 or less</th>
<th>Greater than $20 and less than $30</th>
<th>$30 or more</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under 20</td>
<td>12</td>
<td>28</td>
<td>18</td>
</tr>
<tr>
<td>20 – 40</td>
<td>8</td>
<td>14</td>
<td>13</td>
</tr>
<tr>
<td>Over 40</td>
<td>15</td>
<td>17</td>
<td>12</td>
</tr>
</tbody>
</table>

In total, how many people under the age of 20 had a monthly bill of less than $30?

people

This jug has some milk in it.

If Eve adds an extra 500 mL of milk to the jug, how many millilitres (mL) of milk will then be in the jug?

mL
24 Ann recorded the colour of 50 cars in this table.

<table>
<thead>
<tr>
<th>Car colour</th>
<th>Number of cars</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>25</td>
</tr>
<tr>
<td>Blue</td>
<td>4</td>
</tr>
<tr>
<td>Yellow</td>
<td>5</td>
</tr>
<tr>
<td>Red</td>
<td>?</td>
</tr>
<tr>
<td>TOTAL</td>
<td>50</td>
</tr>
</tbody>
</table>

What percentage of the cars is red?  

25 A garden centre sells a potting mix made up of soil, compost and sand.

Soil makes up \( \frac{2}{3} \) of the mix and compost makes up \( \frac{1}{4} \) of the mix.

What fraction of the potting mix is sand?

\( \frac{1}{12} \)  \( \frac{3}{7} \)  \( \frac{5}{12} \)  \( \frac{4}{7} \)

26 This picture shows the position of three bus stops on the road leading to a school.

Bus Stop B is exactly halfway between Bus Stop A and Bus Stop C.

![Diagram of bus stops](image)

What is the distance between the School and Bus Stop B?  

km
Tara drew this shape on square grid paper.

Which one of the shapes below, when joined (with no overlap) with Tara’s shape, will not make a right-angled triangle?

What is the answer to $6.6 \div 0.3$?

This object was made using identical cubes.

Which drawing shows the view from the right side?
YEAR 7 NUMERACY

30 Which diagram does not have \( \frac{3}{4} \) of the area shaded?

[Diagram of four triangles with different shaded portions]

31 Ben puts 7 flowers in each of 8 vases.
He has 3 flowers left over.
Ben wants to put 9 flowers in each vase.
How many more flowers does he need?

[Box to write answer, with answer: 28]

32 Alex uses these two conversion graphs.

[Graphs showing conversion between Australian dollars and British pounds, and Australian dollars and Brunei dollars]

How many Brunei dollars are equal in value to 50 British pounds?

[Box to write answer, with answer: 110]

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

3 4 5 6

6 + 4 = Shade one bubble.

Write your answer in the box.

P2. 6 + 4 =

What is the total cost of these two stamps?

$1.50 $2.00

$