
- $25
- $50
- $100
- $300

2. The screen of a laptop can be opened to different angles. In which of these is the angle between the screen and the keyboard closest to a right angle?

3. Zak has $79. How much more money does he need to buy the bike?

- $64
- $66
- $74
- $76
4. Matt and his friends are putting up some tents. Each tent needs 8 pegs. Each peg can only be used for one tent. They have 100 pegs.
What is the maximum number of tents they can put up?
- 4
- 8
- 12
- 13

5. Max put one block on top of another block. This is a drawing of the front view and the side view.

Which of these is a correct top view?
- Top View A
- Top View B
- Top View C
- Top View D

6. On Monday Kai measured the temperature every 2 hours from 9:00 am to 3:00 pm.

<table>
<thead>
<tr>
<th>Time of day</th>
<th>9:00 am</th>
<th>11:00 am</th>
<th>1:00 pm</th>
<th>3:00 pm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature (°C)</td>
<td>13</td>
<td>20</td>
<td>24</td>
<td>17</td>
</tr>
</tbody>
</table>

Which graph shows Kai’s results?
Which of these patterns fits the rule, “Double the previous number and add 3”?

☐ 2, 3, 4, 6, 8, …  
☐ 2, 7, 12, 17, 22, …  
☐ 3, 6, 12, 24, 48, … 
☐ 3, 9, 21, 45, 93, …

Ted uses sticks to make a pattern.
He starts with 2 sticks for Stage 1.

<table>
<thead>
<tr>
<th>Stage 1</th>
<th>Stage 2</th>
<th>Stage 3</th>
<th>Stage 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 sticks</td>
<td>6 sticks</td>
<td>12 sticks</td>
<td>20 sticks</td>
</tr>
</tbody>
</table>

How many sticks does Ted need for Stage 6?

☐ 24  
☐ 26  
☐ 30  
☐ 42

Grace poured half a litre of milk into a jug.
How many millilitres did she pour into the jug?

☐ 50  
☐ 250  
☐ 500  
☐ 2000  
☐ 5000

Which object is a prism?
11 Sandra can run 5 kilometres in 30 minutes. Running at the same speed, how long will it take Sandra to run 4 kilometres?

- 18 minutes
- 20 minutes
- 24 minutes
- 29 minutes

12 Which rectangle has one-third shaded grey?

- 
- 
- 
- 

13 There were 22 people at a party. The cost was $24 per person, plus $40 extra for the cake. Which of these shows how to calculate the total cost of the party in dollars?

- \((40 + 24) \times 22\)
- \((22 \times 24) + 40\)
- \(22 + 24 + 40\)
- \(22 \times 24\)

14 This cylinder can hold up to 50 mL of water. How much water is in the cylinder?

- 10 mL
- 20 mL
- 30 mL
- 40 mL
The Year 7 classes at a school collected cans for recycling. The table shows the mass each class collected.

<table>
<thead>
<tr>
<th>Class</th>
<th>Week 1</th>
<th>Week 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>7P</td>
<td>5.29 kg</td>
<td>4.56 kg</td>
</tr>
<tr>
<td>7K</td>
<td>5.32 kg</td>
<td>4.01 kg</td>
</tr>
<tr>
<td>7T</td>
<td>5.3 kg</td>
<td>4.99 kg</td>
</tr>
<tr>
<td>7H</td>
<td>4.88 kg</td>
<td>5.25 kg</td>
</tr>
</tbody>
</table>

Which class collected the greatest total mass?

Class 7P

Class 7K

Class 7T

Class 7H

This table shows how many balloons of each colour are in the clown’s bag.

<table>
<thead>
<tr>
<th>Balloon colour</th>
<th>Number of balloons</th>
</tr>
</thead>
<tbody>
<tr>
<td>red</td>
<td>16</td>
</tr>
<tr>
<td>pink</td>
<td>8</td>
</tr>
<tr>
<td>blue</td>
<td>3</td>
</tr>
<tr>
<td>yellow</td>
<td>5</td>
</tr>
</tbody>
</table>

Without looking, the clown takes a balloon out of his bag. What is the chance that the balloon is red?

\[
\frac{1}{32} \quad \frac{1}{16} \quad \frac{1}{4} \quad \frac{1}{2}
\]

Which of these values of \( ? \) makes this number sentence true?

\[3 \times ? > 21\]

5 6 7 8
The shaded rectangle will be folded along the dotted line.

Where will point $X$ move to?

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>$P$</td>
<td>$Q$</td>
<td>$R$</td>
<td>$S$</td>
<td>$T$</td>
<td></td>
</tr>
</tbody>
</table>

This graph shows the results of 100 spins of a spinner.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Number of times</th>
</tr>
</thead>
<tbody>
<tr>
<td>dark grey</td>
<td>23</td>
</tr>
<tr>
<td>white</td>
<td>52</td>
</tr>
<tr>
<td>black</td>
<td>12</td>
</tr>
<tr>
<td>light grey</td>
<td>13</td>
</tr>
</tbody>
</table>

Which of these spinners is most likely to give the results shown in the graph?
Shape 1 is rotated to look like Shape 2.
Which of these could describe the rotation?

- 45° clockwise
- 45° anticlockwise
- 90° clockwise
- 90° anticlockwise

Harry used 400 grams of flour to make 24 cupcakes.
How many grams of flour will Harry need to make 36 cupcakes?

grams

Levi walked south along Lily Street and then turned right on to Iris Street.
What was the first street he passed on his left?

- Tulip Street
- Daisy Street
- Violet Street
- Rose Street
Anna’s family spends $120 a week on groceries. How much does her family spend in 52 weeks?

$_____

This shape is made with three regular hexagons and three rhombuses.

What fraction of the shape is black?

\[
\frac{1}{3} \quad \frac{1}{4} \quad \frac{1}{5} \quad \frac{1}{6}
\]

This drawing shows how a 3-piece sculpture is made from a large cube.

Step 1: A medium cube is cut from a large cube.
Step 2: A small cube is cut from the medium cube.

What is the total number of faces of the three pieces after Step 2, including the bases?

____ faces
26 James places one box on top of another box. The total height of the two boxes is 19 centimetres. One box is 5 centimetres taller than the other. What is the height of the taller box? 

\[ \text{centimetres} \]

27 Which fraction is halfway between \( \frac{1}{3} \) and \( \frac{3}{5} \) on the number line? 

\[ \frac{1}{4}, \frac{2}{4}, \frac{2}{15}, \frac{7}{15}, \frac{14}{15} \]

28 Which of these is closest to the value of the missing number in this equation? 

\[ \frac{\text{?} + 59.65}{3.14} = 78.5 \]

\[ 60, 85, 140, 180, 300 \]

29 The length of this rectangle is double its height. The perimeter of the rectangle is 24 centimetres. What is the area of the rectangle? 

\[ \text{square centimetres} \]
Five students measured a 20-metre path by taking large steps. This table shows how many steps each student took.

<table>
<thead>
<tr>
<th>Student</th>
<th>Number of steps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paul</td>
<td>16</td>
</tr>
<tr>
<td>Bella</td>
<td>20</td>
</tr>
<tr>
<td>Toby</td>
<td>25</td>
</tr>
<tr>
<td>Emily</td>
<td>28</td>
</tr>
<tr>
<td>Heidi</td>
<td>40</td>
</tr>
</tbody>
</table>

Which student took steps that were about 80 centimetres long?

Paul Bella Toby Emily Heidi

The pictures show the front, side and top views of an object made of cubes.

How many cubes are needed to make the object?

The fraction $\frac{1}{8}$ equals 0.125 as a decimal. What does $\frac{1}{16}$ equal as a decimal?

STOP – END OF TEST