Easter Exam Revision

**Q1**

Work out the size of the smallest angle

**Q2**

The probability of blue and green are the same. Complete the table.

<table>
<thead>
<tr>
<th>Colour</th>
<th>red</th>
<th>blue</th>
<th>green</th>
<th>yellow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Probability</td>
<td>0.24</td>
<td></td>
<td>0.32</td>
<td></td>
</tr>
</tbody>
</table>

**Q3**

The rectangles are congruent. Find the total area.

**Q4**

A bag of soil costs £2.50 for 8 litres. Work out the cost to fill the flower bed.

**Q5**

Work out the value of x

**Q6**

Factorise both expressions

- $b^2 + 13b$
- $6y - 14y^2$

**Q7**

The squares perimeter is 16cm. Work out the area of the shaded section.

**Q8**

Find the median height

<table>
<thead>
<tr>
<th>14</th>
<th>0</th>
<th>2</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>1</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>16</td>
<td>2</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>17</td>
<td>6</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>18</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>
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Q9
\[ x + x + x + y + y \]
\[ 3p + 7q - p - 4q \]
Simplify both expressions

Q10
\[ \text{Estimate the area} \]

Q11
\[ 2 \frac{3}{5} - 1 \frac{5}{6} \]
Work out the sum

Q12
\[ \text{Work out the area} \]

Q13
\[ p = 3y + 11 \]
Make \( y \) the subject

Q14
The price of a phone in England is £1480
The price of the same phone in France is €1980
The exchange rates are
\[ £1 = €1.34 \]
\[ £1 = $1.52 \]
Where is cheaper?

Q15
<table>
<thead>
<tr>
<th>Height (h cm)</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>130 &lt; h ≤ 140</td>
<td>1</td>
</tr>
<tr>
<td>140 &lt; h ≤ 150</td>
<td>7</td>
</tr>
<tr>
<td>150 &lt; h ≤ 160</td>
<td>8</td>
</tr>
<tr>
<td>160 &lt; h ≤ 170</td>
<td>10</td>
</tr>
<tr>
<td>170 &lt; h ≤ 180</td>
<td>4</td>
</tr>
</tbody>
</table>
Calculate the mean

Q16
James invested £6000 for 4 years in a savings account. He was paid 2.5% per annum compound interest.

Olivia invested £6000 for 4 years in a savings account. She was paid 3.5% per annum simple interest.
Who gets the best deal?
Q17 Calculate the shaded area

Q18 Describe the transformation

Q19 Work out the angle between the regular octagon and hexagon

Q20 The ratio of the number of boys to girls is 4:5

There are 95 girls.

How many boys are there?

Q21 Draw a plan

Q22 Draw a chord

Q23 Complete the parallelogram

Q24 Work out the area of the shaded segment to 3sf.
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Q25 \[\frac{\sqrt{2.7} + 6.5}{4.8 - 1.06}\]
Work out to 2 decimal places

Q26 \[\frac{\sqrt{2.7} + 6.5}{4.8 - 1.06}\]
Work out to 2 significant figures

Q27 There are 240 students. How many boys are there?

Q28 \[5n + 3 > 27\]
Solve

Q29 The perimeter is 28cm. Find the area of the shaded section

Q30 \[
\begin{align*}
4x + y &= 10 \\
x - 5y &= 13
\end{align*}
\]
Solve the simultaneous equations

Q31 \[y = \frac{3}{x}\]
Complete the table of values

<table>
<thead>
<tr>
<th>x</th>
<th>0.5</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>y</td>
<td>3</td>
<td>1.5</td>
<td>0.75</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Q32 Show ABC is an isosceles. Give reasons at each stage
Answers

1. $42^\circ$
2. 0.22
3. $48\text{cm}^2$
4. £75
5. 6cm
6. $b(b+13)/2y(3-7y)$
7. $10\text{cm}^2$
8. 165
9. $3x+2y/2p+3q$
10. $39\text{cm}^2$
11. $\frac{23}{30}$
12. $44\text{cm}^2$
13. $\frac{p-11}{3}=y$
14. France by €3.20
15. 158cm
16. Olivia-£6840 compared to £6622.88
17. $203.47\text{cm}^2$
18. Translation $\left(\begin{array}{c} 4 \\ -3 \end{array}\right)$
19. $105^\circ$
20. 76 boys
21. Plan Drawn
22. Chord Drawn
23. Parallelogram Drawn
24. $6.58\text{cm}^2$
25. 2.18
26. 2.2
27. 122 boys
28. 4.8
29. $13\text{m}^2$
30. $x = 3$ and $y = -2$
31. 6, 1, 0.6 and 0.5
32. Opposite angle $= 46^\circ$, Angles on a straight line $= 67^\circ$, angles in a triangle $(180^\circ -(67^\circ +46^\circ))=67^\circ$, Two angle are the same.