1. \(\frac{1}{4} a - \frac{1}{4} b - \frac{1}{4} c\) oe

2. (0580-S 2016-Paper 2/3-Q14)

(a) (i) 8
(ii) 9, 15
(b) [Venn diagram]

3. (0580-S 2016-Paper 2/1-Q22)

(a) \(3\)
(b) \(\frac{19}{27}\) oe
(c) \(\frac{7}{10}\) oe
(d) [Venn diagram]

4. (0580-S 2016-Paper 2/2-Q24)

(a) \(a + b - c\)
(b) \(\frac{1}{2} a + \frac{1}{2} b + \frac{1}{2} c\)
(c) \(\frac{1}{2} c - \frac{1}{2} a - \frac{1}{6} b\)
5. (0580-W 2016-Paper 2/2-Q15)

(a) (i) 9
(ii) 12
(b) \(\frac{5}{14}\)
(c) [Venn diagram]

6. (0580-W 2016-Paper 2/2-Q16)

(a) \(\begin{pmatrix} -7 \\ 3 \end{pmatrix}\)
(b) 7.81 or 7.810,....

7. (0580-W 2016-Paper 2/3-Q18)

(a) 25
(b) \(\frac{x^2 - 3}{2}\) oe final answer
(c) 2x + 3 final answer
8. (0580-W 2016-Paper 2/3-Q20)

(a) 

\[
\begin{array}{c}
A \quad \frac{7}{5} \\
B \quad \frac{2\sqrt{3}}{5} \\
\end{array}
\]

(b) 

\[
\begin{array}{c}
C \\
D \\
\end{array}
\]

9. (0580-W 2016-Paper 2/1-Q22)

(a) (i) 

\[
\begin{array}{c}
A \\
B \\
\end{array}
\]

(ii) \[
\frac{2}{10} \text{ oc}
\]

(b) 

\[
\begin{array}{c}
C \\
D \\
\end{array}
\]

10. (0580-S 2017-Paper 2/3-Q9)

(a)(i) \[
\begin{pmatrix}
30 \\
-20
\end{pmatrix}
\]

(a)(ii) \[
\begin{pmatrix}
-6 \\
4
\end{pmatrix}
\]

(b) \[-4\]

11. (0580-S 2017-Paper 2/3-Q12)

(a) \[3 + 12x \text{ final answer}\]

(b) \[24x + 31 \text{ final answer}\]
12. (0580-S 2017-Paper 2/1-Q17)

(a)

(b)(i)

(b)(ii) Any even square number that is also a multiple of 3

13. (0580-S 2017-Paper 2/3-Q17)

\[ \frac{2}{7}p + \frac{5}{7}q \]

14. (0580-S 2017-Paper 2/1-Q18)

(a) \(2a + b\)

(b) \(D\)

(c) \(\overline{CF} \text{ and } \overline{BG}\)

15. (0580-S 2017-Paper 2/2-Q23)

(a)(i) 24

(a)(ii) 5

(a)(iii) \(\frac{7}{12}\)

(b)