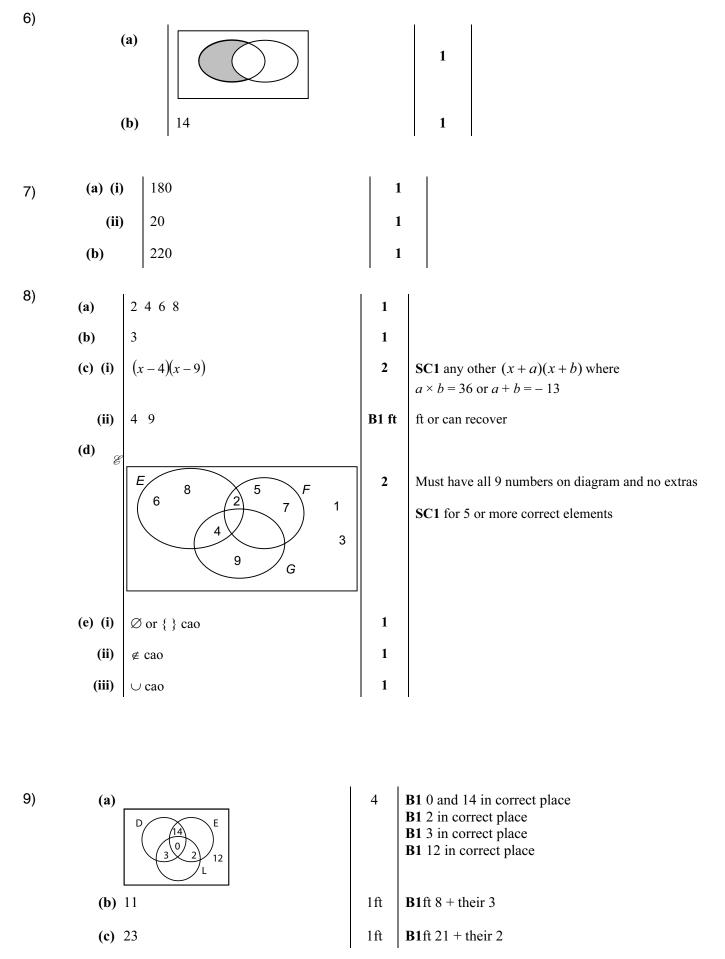
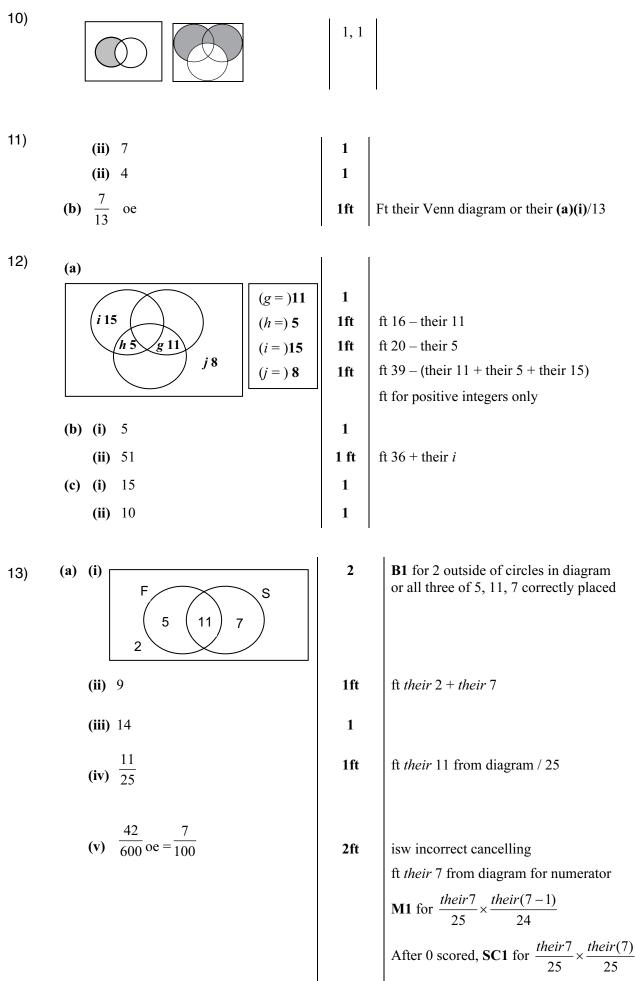
| 9 |) (a) | (p =) 5 cao, (q =) 12 cao (r =) 1 ft | | B1 B1 B1ft | Accept in correct order if no labels ft for $r = 18 - their p - their q$ provided r not negative |
|----|---|--|-----------------|--------------------|---|
| _ | (b) (i) | 17 cao | | B1 | |
| _ | (ii) | 12 cao | | B1 | |
| _ | (c) (i) | 26 cao | | B1 | |
| _ | (ii) | 57 ft | | B1ft | ft 45 + <i>their</i> q |
| - | (d) (i) | $\frac{8}{100}$ oe isw | | B1 | |
| | (ii) | $\frac{45}{100}$ oe isw | | B1 | |
| _ | (e) | Any fraction with denominator 74 $\frac{37}{74} \times \frac{36}{73}$ $\frac{18}{73}$ oe isw cao | 4 seen | B1 M1 A1 | ft <i>their</i> fraction i.e. one taken off each part $\frac{k}{l} \times \frac{k-1}{l-1} \qquad \text{N.B} \frac{1}{2} \times \frac{36}{73} \text{ gets B1M1}$ $\frac{1332}{5402} \qquad \text{www3 (if decimal then 0.247 or better)}$ Do not accept ratio or in words [12] |
| 2) | | | 1, 1 | | |
| 3) | | | 2 B1, B1 | | |
| 4) | Q | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | M1 1 | 5 only in small circle 0 only in the intersection 11 correct including labels |
| 5) | $(A \cup (A \cup$ | $(B \cup C)'$ $(C)' \cap B$ | 1 | or A' or A' | $\cap B' \cap C'$ or $A' \cap (B \cup C)'$ $\cap C' \cap B$ |

Sets and Venn Diagrams Answers



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