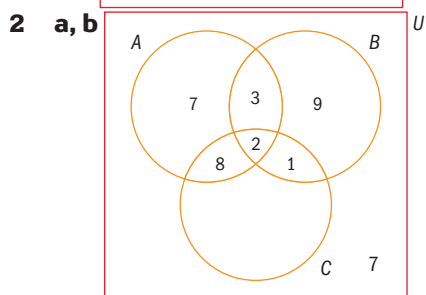
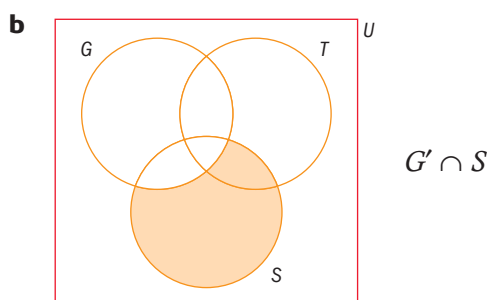


Review exercise

Paper 1 style questions

- 1 a i 6 ii 5 iii 10 iv 24

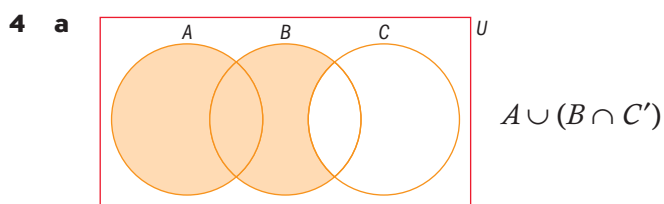


c 3

3 a F b T

c T d T

e T f T



b $4 + 6 + 5 = 15$

c i 5, 10, 15, 20

ii 10, 20, 30

5 For example:

a -3, 4

b $\frac{3}{4}, \pi$

c $\frac{2}{3}, \frac{-7}{10}$

d $\frac{1}{2}, \frac{5}{6}$

e $\pi, \sqrt{2}$

f $\pi, \sqrt{2}$

6 a $\frac{4}{60} = \frac{1}{15}$

b $1 - \frac{1}{15} = \frac{14}{15}$

c $\frac{16}{20} = \frac{4}{5}$

7 a $\frac{3}{15} = \frac{1}{5}$

b $\frac{3}{14}$

c $\frac{4}{15} \times \frac{3}{14} = \frac{2}{35}$

8 a 12

b $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

c $\frac{2}{6} = \frac{1}{3}$

9 a $3400 \leq w < 3700$

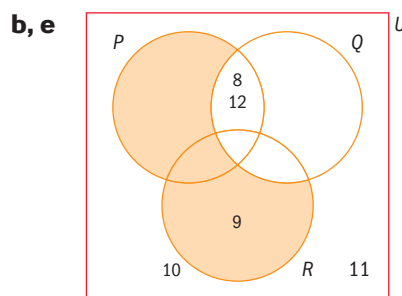
b $\frac{5}{50} = \frac{1}{10}$

c $\frac{45}{50} = \frac{9}{10}$

d $\frac{20}{45} = \frac{4}{9}$

Paper 2 style questions

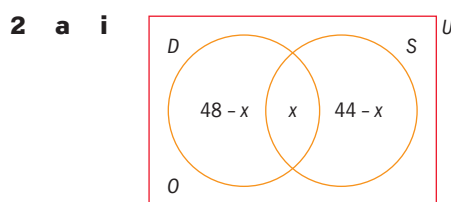
1 a $U = \{8, 9, 10, 11, 12\}$



c i none

ii none

d numbers that are either multiples of 4 or factors of 24.



ii $48 - x + x + 44 - x = 70$

$92 - x = 70$

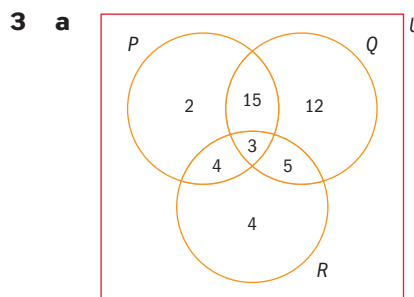
$x = 22$

iii Members who did not attend both Drama and Sport

iv $P(D \text{ or } S) = \left[\frac{48 - 22}{70} + \frac{44 - 22}{70} \right] = \frac{48}{70} = \frac{24}{35}$

b i $\frac{30}{70} = \frac{3}{7}$

ii $\frac{12}{70} = \frac{6}{35}$



b $50 - 45 = 5$

c i $\frac{35}{50} = \frac{7}{10}$

ii $\frac{29}{50}$

iii $\frac{6}{24} = \frac{1}{4}$

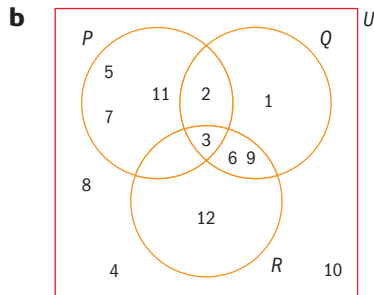
d $\frac{3}{50} \times \frac{2}{49} = \frac{3}{1225}$

4 a i $P = \{2, 3, 5, 7, 11\}$

ii $Q = \{1, 2, 3, 6, 9\}$

iii $R = \{3, 6, 9, 12\}$

iv $P \cap Q \cap R = \{3\}$



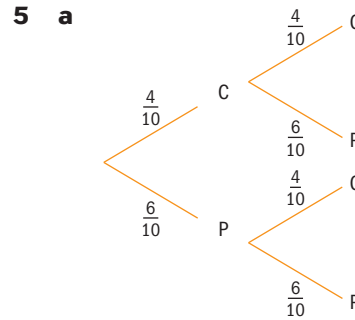
c i $\{2, 3, 5, 6, 7, 9, 11\}$

ii $\{1, 4, 8, 10\}$

iii $\{4, 8, 10\}$

d i $\frac{5}{12}$ **ii** $\frac{3}{12}$

iii $\frac{4}{12}$ **iv** $\frac{2}{5}$



b i $\frac{4}{10} \times \frac{4}{10} = \frac{16}{100}$

ii $\frac{4}{10} \times \frac{6}{10} + \frac{6}{10} \times \frac{4}{10} = \frac{48}{100}$

c i $a = 8$ $b = 9$

ii 0

iii 1

d $\frac{1}{2} \times \frac{4}{10} + \frac{1}{2} \times \frac{1}{10} = \frac{5}{20} = \frac{1}{4}$

6 a i $\frac{13}{60}$

ii $\frac{16}{60}$

iii $\frac{42}{60}$

b i $\frac{4}{60} + \frac{7}{60} + \frac{16}{60} = \frac{27}{60}$

ii $\frac{9}{13}$

c i $\frac{36}{60} \times \frac{35}{59} = \frac{21}{59}$

ii $\frac{45}{60} \times \frac{44}{59} = \frac{33}{59}$