

1. 45                                      2. 486                                      3. 214                                      4. 31
5. (a) (i) 11yrs 4 mths (ii) 37·81kg (iii) 1·55m      (b) (i) 2 (ii) 2 (iii) 1
6. (a) Train A = 2hrs 48mins    Train B = 3hrs 15mins    Train C = 2hrs 59mins    Train D = 3hrs 10mins  
(b) 3hrs 3mins      (c) (i) 2 (ii) 2      (d) The average would be 4 minutes faster (2hrs 59mins)
7. (a) (i)                      (b) (i) €5·70 (ii) €6·30

1. 08:00 : cars = 15    vans = 18    trucks = 12    12:00 : cars = 24    vans = 10    trucks = 26  
16:00 : cars = 24    vans = 18    trucks = 24    20:00 : cars = 28    vans = 12    trucks = 17
2. (a) (i) 20:00 (ii) 08:00      (b) (i) 08:00/16:00 (ii) 12:00      (c) (i) 12:00 (ii) 08:00      (d) (i) 16:00 (ii) 08:00
3. (a) 08:00    (b) 12:00                      4. 228                      5. 57                      6. (a) 5°C    (b) 1st Friday    (c) 13°C    (d) 13°C

1. (i) (a)  $\frac{1}{6}$  blue    (b)  $\frac{2}{3}$  blue    (c)  $\frac{1}{10}$  blue    (d)  $\frac{3}{8}$  blue  
(ii) (a)  $\frac{1}{3} = 120^\circ$ ,  $\frac{1}{2} = 180^\circ$ ,  $\frac{1}{6} = 60^\circ$     (b)  $\frac{1}{4} = 90^\circ$ ,  $\frac{1}{12} = 30^\circ$ ,  $\frac{2}{3} = 240^\circ$   
(c)  $\frac{3}{5} = 216^\circ$ ,  $\frac{3}{10} = 108^\circ$ ,  $\frac{1}{10} = 36^\circ$     (d)  $\frac{1}{8} = 45^\circ$ ,  $\frac{1}{3} = 120^\circ$ ,  $\frac{1}{6} = 60^\circ$ ,  $\frac{3}{8} = 135^\circ$
2. (a)  $120^\circ$     (b)  $60^\circ$     (c)  $90^\circ$     (d)  $45^\circ$     (e)  $36^\circ$     (f)  $30^\circ$     (g)  $18^\circ$     (h)  $12^\circ$
3. (a)  $270^\circ$     (b)  $135^\circ$     (c)  $144^\circ$     (d)  $150^\circ$
4. (a)  $\frac{1}{4}$     (b)  $\frac{1}{6}$     (c)  $\frac{1}{8}$     (d)  $\frac{1}{10}$     (e)  $\frac{1}{5}$     (f)  $\frac{1}{3}$     (g)  $\frac{3}{10}$     (h)  $\frac{5}{12}$
5. (a)  $144^\circ$     (b) (i)  $\frac{1}{10}$  (ii)  $\frac{1}{5}$  (iii)  $\frac{3}{10}$  (iv)  $\frac{2}{5}$

(ii) (a)

sport	football	swimming	basketball	rounders	other
boys	80	60	40	30	30
girls	60	80	40	40	20

(b)

sport	football	swimming	basketball	rounders	other
boys	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{6}$	$\frac{1}{8}$	$\frac{1}{8}$
girls	$\frac{1}{4}$	$\frac{1}{3}$	$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{12}$

(c)

sport	football	swimming	basketball	rounders	other
boys	$120^\circ$	$90^\circ$	$60^\circ$	$45^\circ$	$45^\circ$
girls	$90^\circ$	$120^\circ$	$60^\circ$	$60^\circ$	$30^\circ$