



Numeracy Revision

Answers

SPTA Mathematics - Numeracy/Lifeskills



1. a) $24 - 16 = 8$ silver medals. (b) 1994 & 2002, they won 6 Gold medals.
c) $196 - 172 = 24$ medals were won in 2014. (d) $\frac{24}{196} \times 100 = 12.2\%$
2. $360 - (67 + 90 + 21 + 112) = 360 - 290$
 $= 70^\circ$
 $\frac{70}{360} \times 3780 = 735$ customers
3. a) $75 : 105 : 180$ (b) $7500 \times 105 = 787500$
 $5 : 7 : 12$ $\frac{787500}{2977500} \times 100 = 26.45\%$
- c) $(12 \times 180) + (50 \times 105) + (104 \times 75) = 15210$
 $(12 \times 240) + (50 \times 140) + (104 \times 100) = 20280$
Profit = $20280 - 15210$
 $= £5070$
- d) $640 \div 7 = 91.43\text{kg}$
- e) Small: $125 \div 250 = 0.5\text{p/ml}$
Medium: $235 \div 500 = 0.47\text{p/ml}$
Large: $345 \div 675 = 0.51\text{p/ml}$
The medium drink is the best value as it has the lowest price per ml.
4. a) A Strong positive correlation exists.
b) Fred is 113 over 78 (approximate values we will accept answers within the range ± 2)
c) i) Bob has High Blood Pressure
ii) Fred has Ideal Blood Pressure
iii) Bob is more likely to have heart problems in the future.

5. a) 1 mile (b) 45 miles

c) $458 \div 20 = 22.9$ miles. Yes since $22.9 > 19.8$.

d) $22.9 + 3.1 = 26$ miles

6. a) $P(2) = \frac{1}{5}$

b) $P(5) = \frac{1}{6}$

c)

		Red Spinner					
		1	2	3	4	5	6
Yellow Spinner	1	2	3	4	5	6	7
	2	3	4	5	6	7	8
	3	4	5	6	7	8	9
	4	5	6	7	8	9	10
	5	6	7	8	9	10	11

d) $P(9) = \frac{3}{30}$
 $= \frac{1}{10}$

e) $P(6) = \frac{5}{30}$
 $= \frac{1}{6}$

Nuber of 6's $= \frac{1}{6} \times 72$
 $= 12$