

Mark schemes

Q1. (a) The correct answer is 10. Accept any number in the range 8 to 12, **inclusive**.

(b) Award **TWO** marks for the correct answer of 12, even if there are errors in the working.

Award **ONE** mark if the answer is incorrect, but there is evidence of an attempt to calculate 15% of 80 by any method, eg:

- $15/100 \times 80 =$ (incorrect answer given)
- 10% of 80 = 8, 5% is 4, so 15% of 80 = (incorrect answer given)
- 1% of 80 = $80/100 = 4/5$, so 15% = $4/5 \times 15 =$ (incorrect answer given)
*The writing of "15/100 × 80" (or equivalent) **alone** is **not** sufficient evidence of an attempt to calculate.*

Q2. (a) 400

or

Shows or implies a complete correct method, eg:

- $30\% - 25\% = 5\%$
 $5\% = 20$
 $100\% = 20 \times 20$

Q3. 32

OR

Shows or implies a complete, correct method, eg:

- $35 + 45 = 90$ (error)
 $100 - 90 = 10$
 $56 \div 35 = 1.6$
 $1.6 \times 10 = 16$
- 35% of children = 56
total children = $56 \times 100 \div 35 = 150$ (error)
Reception = $100 - (45 + 35)\% = 20\%$
Reception = 20% of 150
 $0.2 \times 150 = 40$ (error)
- 35% is 56
5% is 8
20% is $4 \times 8 = 24$ (error)

Q4.

- (a) $\frac{1}{20}$ or equivalent

*Accept equivalent fractions, decimals
or percentages, eg:*

- 5%
- 0.05
- $\frac{5}{100}$

Do not accept 5 without a percentage sign

- (b) 95

Do not accept equivalent fractions or decimals

Q5.

- (a) Gives an answer in the range 25 to 29 inclusive
- (b) Gives an answer in the range 44 to 52 inclusive