Q1.   (a)   Solve $x + 4 = 10$.

$x =$ ....
(1)

(b)   Solve $4y = 20$.

$y =$ ....
(1)

(c)   Solve $19 - m = 12$.

$m =$ ....
(1)
(Total 3 marks)

Q2.   (a)   Solve $4x = 12$

$x =$ ....

(1)

(b)   Solve $y - 7 = 11$

$y =$ ....

(1)
(Total 2 marks)

Q3.   (a)   Solve $3x = 12$

$x =$ ....

(1)

(b)   Simplify $4 \times p \times q$

....

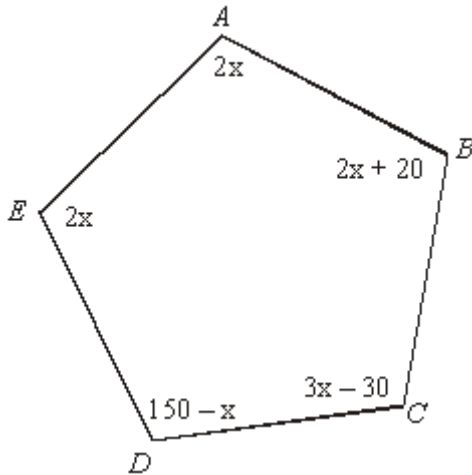**(1)**
(Total 2 marks)

Q4.   In the diagram all of the angles are in degrees.
Find the size of angle CDE.

Diagram **NOT**
accuartely drawn

....

(Total 4 marks)

Q5.   A bag contains red, yellow and blue balls.

The probability of drawing a red ball at random is $\dfrac{1}{2}$.

The probability of drawing a yellow ball at random is x.
The probability of drawing a blue ball at random is $4x$.

Work out the probability that a blue ball is selected.
Give your answer as a numerical value.

....

(Total 3 marks)

M1.

	Answer	Mark	Additional Guidance
(a)	6	1	**B1** cao
(b)	5	1	**B1** cao
(c)	7	1	**B1** cao
			Total for Question: 3 marks

M2.

	Working	Answer	Mark	Additional Guidance
(a)		3	1	**B1** cao
(b)		18	1	**B1** cao
				Total for Question: 2 marks

M3.

	Answer	Mark	Additional Guidance

(a)	4	1	**B1** cao Accept $\frac{12}{3}$
(b)	$4pq$	1	**B1** cao
			Total for Question: 2 marks

M4.

Working	Answer	Mark	Additional Guidance
$2x + 2x + 40 + 3x - 30 + 150 - x + 2x$ $= 540$ $8x + 140 = 540$ $x = 50$	100°	4	**M1** $2x + 2x + 40 + 3x - 30 + 150 - x + 2x$ **M1** collects terms correctly **A1** $x = 50$ **A1** cao
			Total for Question: 4 marks

M5.

Working	Answer	Mark	Additional Guidance

$\dfrac{4}{10}$ 3

Total for Question: 3 marks

E1.   This question was done well by the vast majority of candidates. Few candidates showed any working, most simply wrote down an answer. A common error in part (b) was 16. A common error in part (c) was 31.

E3.   Part (a) was well answered. In part (b) the frequent error was not to simplify the expression fully.