Speed, distance, time

1.   A car travels 60 miles in 2 hours.
        Find the average speed of the car.

        (2 marks)

2.   A truck drives 120 km in 3 hours.
        Find the average speed of the car.

        (2 marks)

3.   A bike travels 50 miles at a speed of 10mph.
        How long dis the journey take?

        (2 marks)

   4. A

        (2 marks)

Speed, distance, time

5. Expand and simplify $(x - 9)^2$.

(2 marks)

6. Expand and simplify $(2x + 1)(2x + 2)$.

(2 marks)

7. Expand and simplify $(3y - 1)(y + 10)$

(2 marks)

8. Expand and simplify $(5x - 3)(3x - 7)$.

(2 marks)

Speed, distance, time

9. Expand and simplify $(3x + 4)^2$.

<div align="right">(2 marks)</div>

10.   Expand and simplify $(7y - 2)^2$.

<div align="right">(2 marks)</div>

11.   Expand and simplify $(5 + k)(2 + k)$.

<div align="right">(2 marks)</div>

12.   Expand and simplify $(7 - x)(3 - x)$.

<div align="right">(2 marks)</div>

13. Expand and simplify $(x + 2)(x + 3) + (x + 5)(x + 7)$.

(3 marks)

14.   Expand and simplify $(x + 7)(x - 3) - (x + 9)(x - 4)$.

(3 marks)

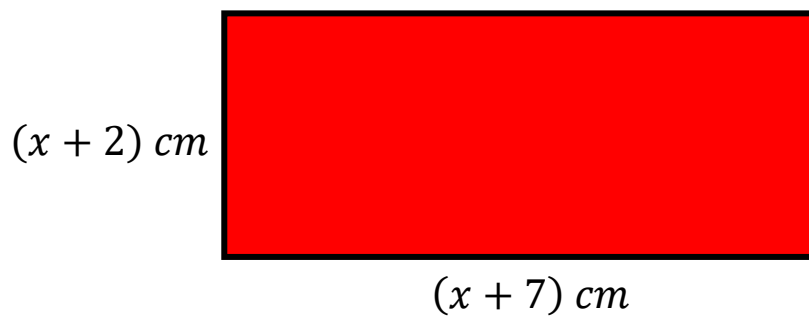15.   Expand and simplify
$(2x - 5)(2x - 4) - (3x + 2)(x - 5)$.

(3 marks)

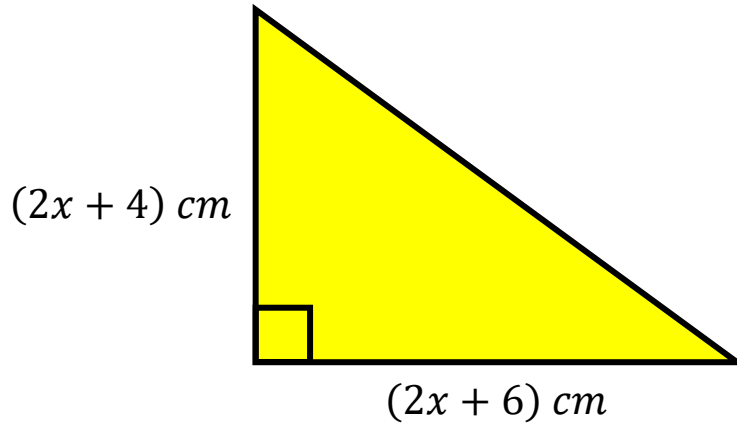16.   Expand and simplify $(x^2 + 8)(x^2 - 5)$.

(3 marks)

17.   A rectangle is shown below.
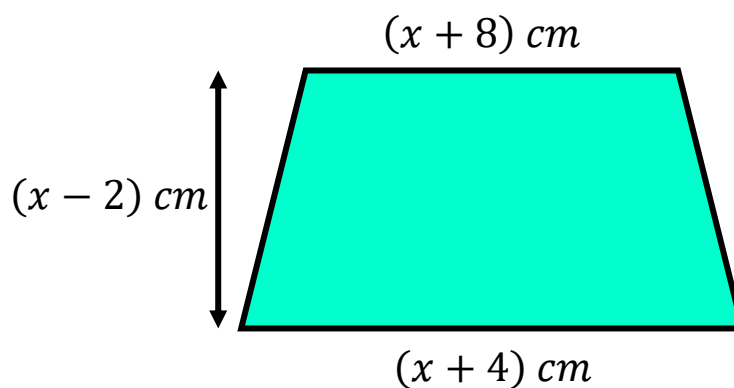   Find an expression for the area of the rectangle.

$(x + 2)\ cm$

$(x + 7)\ cm$

(3 marks)

18. A right angled triangle is shown below.
     Find an expression for the area of the triangle.

$(2x + 4)\ cm$

$(2x + 6)\ cm$

(4 marks)

19. Below is a trapezium.
     Find an expression for the area of the trapezium.

$(x + 8)\ cm$

$(x - 2)\ cm$

$(x + 4)\ cm$

(4 marks)