

## Workout

Question 1

1(a) 9.165cm

1(b) 30.414cm

1(c) 36.674mm

1(d) 19.502cm

1(e) 11.152cm

1(f) 2.361cm

Question 2

2(a)  $71.8^\circ$

2(b)  $60^\circ$

2(c)  $87.2^\circ$

2(d)  $132.9^\circ$

2(e)  $70.7^\circ$

2(f)  $24.1^\circ$

Question 3: 10.8cm

Question 4:  $40.8^\circ$

Question 5:  $31.2^\circ$

## Apply

Question 1: 21.5cm

Question 2: 20.49km

Question 3:  $45.3^\circ$

Question 4(a):  $29.9^\circ$                       4(b): 249.44m

Question 5:  $49.62\text{cm}^2$

Question 6:  $147.7^\circ$

Question 7: 8.526cm

Question 8: 8.546cm

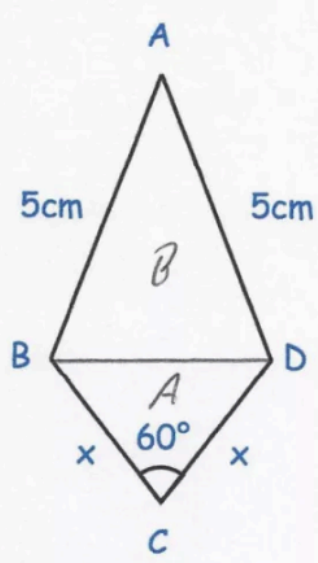
Question 9(a): 79.23km              9(b):  $324^\circ$

Question 10: 27.9cm

Question 11:

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

Question 12:

<p>Shown is kite ABCD</p>  <p>(A)</p> <p>(B)</p>	<p>Prove</p> $\cos BAD = 1 - \frac{x^2}{50}$ $BD^2 = x^2 + x^2 - 2(x)(x)\cos 60$ $BD^2 = 2x^2 - x^2 = x^2$ $BD^2 = 5^2 + 5^2 - 50 \cos BAD$ $BD^2 = 50 - 50 \cos BAD$ $x^2 = 50 - 50 \cos BAD$ $50 \cos BAD = 50 - x^2$ $\cos BAD = 1 - \frac{x^2}{50}$
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