## Practice Paper B

Part 2

| Question | Points of Process or Accuracy | Expected responses |
| :---: | :---: | :---: |
| 1 | - Correct gathering of $x$ terms <br> - Correct gathering of number terms <br> - Correct solution | - $7 x$ <br> - $7 x=28$ <br> - $x=4$ |
| Correct answer only award 1/3 |  |  |
| 2 | \# Overall strategy <br> - Finds area of squares <br> - Correct radius for circle <br> - Finds area of two circles <br> - Total area found | \# Evidence of composite area including finding radius of SC <br> - $8 \times 8 \times 5=320$ <br> - $r=4$ <br> - $3.14 \times 4^{2} \times 2=100.48$ <br> - $420.48 \mathrm{~cm}^{2}$ [accept any rounding] |
| Correct answer only award 1/4 (operational mark) |  |  |
| 3(a) <br> (b) <br> (c) | - Table completed <br> - Evidence of multiplier <br> - Correct formula <br> \# equate to 64 <br> - Solve | - $16,20,36$ <br> - Evidence of $\times 4$ <br> - $c=4 b-4$ <br> \# $64=4 b-4$ <br> - 17 |
| 4 | - Correct time interval <br> - Correct time conversion <br> - Uses correct formula <br> - Answer | - 5 hours 15 minutes <br> - 5.25 hrs <br> - $50 \times 5.25$ <br> - 262.5 miles |
| Correct answer only award 0/4 |  |  |
| 5 | \# Right - angled strategy <br> - Correct Pythagoras statement <br> - Correct length <br> - Correct rounding | \# know to use Pythagoras’ theorem <br> - $30^{2}-16^{2}$ <br> - 25.3771.... <br> - 23.4 m |
| Correct answer only award 1/3 (operational mark) |  |  |
| 6 | - Know to use sine ratio | - $\sin x^{0}$ |


|  | - State correct ratio <br> - Calculate angle <br> \# valid conclusion with reason | - $\sin x^{0}=0.6 / 1.5$ <br> - $23 \cdot 6^{\circ}$ [accept any rounding] <br> \# Meets regs since $23 \cdot 6<25$ |
| :---: | :---: | :---: |
| Correct answer only award 0/3 and \# 0/1 |  |  |
| 7(a) <br> (b) <br> (c) | - 4 points plotted on grid <br> - Further 2 points plotted on grid <br> - Line of best fit drawn <br> \# correct conclusion | - Points plotted correctly <br> - Points plotted correctly <br> - Acceptable line drawn <br> \# conclusion must be valid for line of best fit drawn |
| 8 | - Probability for first class <br> - Probability from bag 2 <br> \# correct conclusion with reason | - $P=18 / 24=3 / 4(0.75)$ <br> - $\mathrm{P}=21 / 30=7 / 10(0 \cdot 7)$ <br> \# Tristan is not correct since $0.75>0.7$ [accept any valid explanation] |

Total process and accuracy points for this test: 40
Total reasoning points for this test: 8

