



SPTA

Block 4

Revision - Answers



1. **a)** $4\sqrt{2}$ **(b)** $5\sqrt{3}$ **(c)** 8 **(d)** $2\sqrt{5}$
 e) $3\sqrt{6}$ **(f)** $7\sqrt{3}$ **(g)** $9\sqrt{3}$ **(h)** $10\sqrt{5}$

2. $c^2 = a^2 + b^2$
 $8^2 = x^2 + x^2$
 $64 = 2x^2$
 $32 = x^2$
 $x = \sqrt{32}$
 $x = \sqrt{16} \times \sqrt{2} = 4\sqrt{2} \text{ cm}$

3. **a)** x^{13} **(b)** x^7 **(c)** x^2
 d) $18x^{-5/3}$ **(e)** $6x^{-5/2}$ **(f)** $20x^{3/2}$

4. **a)** $(3 \cdot 12 \times 10^4) \times 27 = 842400 = 8.424 \times 10^5$
 b) $(2.64 \times 10^3) \times 34 = 89760 = 8.976 \times 10^4$
 c) $(2.4 \times 10^4) \times 30 = 720000 = 7.2 \times 10^5$
 d) $(3 \cdot 89 \times 10^5) \div 364 = 1068.7 = 1069 = 1.069 \times 10^3$

5. **a)** 653m^2 **(b)** 218.87 m^2 **(c)** 330.12 m^2 **(d)** 303.22 m^2

6. **a)** 146.69m **(b)** 153.54m **(c)** 7.65m **(d)** 36.14m

7. 5.62m 8. 153° 9. 150° 10. 163°