Unit 8 pre-test

(12) need both

$a^2+b^2=c^2$

$6^2+h^2=10^2$

$36+h^2=100$

$-36 \quad -36$

$\sqrt{h^2}=\sqrt{64}$

$h=8m$ (2pts)

1st mark 1st basket

$A=b\cdot h$

$A=6*8$

$A=48.$ m^2 (2pts)

(13)

$a^2+b^2=c^2$

$3^2+h^2=12^2$

$9+h^2=144$

$-9 \quad -9$

$\sqrt{h^2}=\sqrt{135}$

$h=11.62mm$ (2pts)

↑ round to nearest hundredth

$A_\triangle=\frac{1}{2}\cdot base\cdot height$

$A_\triangle=\frac{1}{2}\cdot 6\cdot 11.62$

$A_\triangle=34.86mm^2$ (2pts)

(14) Total area $=A_{\frac{1}{2}\circ}+A_\square+A_\triangle$

$A_\square=6\cdot 6=36cm^2$ (2pts)

$A_{\frac{1}{2}\circ}=\frac{1}{2}\cdot 3.14*3^2$

$=\frac{1}{2}*3.14*9$

$=14.13\ cm^2$ (2pts)

$A_\triangle=\frac{1}{2}\cdot 4\cdot 6$ (2pts)

$A_\triangle=\frac{1}{2}\cdot 24$

$A_\triangle=12cm^2$

TOTAL: $36+12+14.13=62.13\ cm^2$ (2pts)

16 pts total

(36 pts total)

Unit 8 pre-test

1

(8 pts)

(1) $A = \frac{1}{2} \cdot b \cdot h$

(2) $A = \pi r^2$

(3) $A = b \cdot h$

(4) $A = bh$

(5) $A = bh$

(6) $C = 2\pi r = \pi d$

(7) $A = \frac{1}{2}(b_1 + b_2) \cdot h$

(8) $A = b \cdot h$

1st mark, 1st answer

(9) $P = 32 + 30 + 32 + 30 = 124$ mm (2 pts)

$A = 32 * 27.5 = 880$ mm^2 (2 pts)

(10) $P = 12 + 8 + 12.5 + 14 = 46.5$ m (2 pts)

$A = \frac{1}{2} \cdot (8 + 14) \cdot 11 = 121$ m^2 (2 pts)

(11) $A = \pi r^2$

$A = 3.14 * 25^2$

$A =$ [redacted] mm^2

1962.5 mm^2 (2 pts)

$C = 2\pi r$

$C = 2 * 3.14 * 25$

$C = 157$ mm

(2 pts)

TOTAL 29 pts